

EXHIBIT CJ

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Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
<p>[1.0] A computing device comprising:</p>	<p>Google’s “Cast” technology enables an “Android, iOS, or Web app to direct its streaming video and audio to a TV or sound system,” where the app “becomes the remote control to play, pause, seek, rewind, stop, and otherwise control the media.” https://developers.google.com/cast.¹ In Google’s “Cast” framework, there are two core categories of devices: (1) “sender” devices, which are computing devices installed with a Cast-enabled Android, iOS, Chrome, or browser-based app accessed via either an app store or Chromecast-enabled site URL² (including youtube.com, music.youtube.com, tv.youtube.com, and spotify.com), and (2) “receiver” devices, which are Cast-enabled media players such as an audio or video playback device. <i>See, e.g.</i>, https://developers.google.com/cast/docs/developers; https://developers.google.com/cast/glossary; https://developers.google.com/cast/docs/ux_guidelines.</p> <p>There are many different Cast-enabled Android, iOS, Chrome, or browser-based apps that allow a user to transfer playback of streaming media content from the user’s smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player’s playback using the Cast-enabled app. This includes Google’s own Cast-enabled apps, such as the YouTube Music app, the YouTube app, the YouTube TV app, and the YouTube Kids app, as well as a host of different third-party Cast-enabled apps, such as the Spotify app. <i>See, e.g.</i>, https://support.google.com/chromecastbuiltin/answer/6279384?hl=en#zippy=%2Cbefore-you-begin-casting%2Ccast-from-chromecast-enabled-apps-to-your-audio-device%2Cfind-new-content-to-cast; https://www.google.com/chromecast/built-in/apps/. These Cast-enabled apps can be installed and run on any smartphone, tablet, or computer device that supports Android, iOS, Chrome, or browser-based apps, including Google’s own “Pixel” smartphone, tablet, and computer devices (<i>e.g.</i>, the Pixel, Pixel XL, Pixel 2, Pixel 2 XL, Pixel 3, Pixel 3 XL, Pixel 3a, Pixel 3a XL, Pixel 4, Pixel 4 XL, Pixel 4a, Pixel 4a (5G), Pixel 5, Pixel 5a (5G), Pixel 6 phones, the Pixel Slate tablet, and the Pixelbook and Pixelbook Go laptops) as well as many third-party smartphone, tablet, or computer device. <i>See, e.g.</i>, https://store.google.com/us/magazine/compare_pixel; https://store.google.com/us/product/google_pixelbook_specs; https://store.google.com/us/product/pixel_slate_specs. For purposes of this chart, any smartphone, tablet, or computer device installed with a Cast-enabled Android, iOS, Chrome, or browser-based app (<i>e.g.</i>, accessed</p>

¹ Additional information regarding the accused instrumentalities is set forth in the Infringement Contention Chart for U.S. Patent No. 9,967,615 (Ex. A), which is incorporated herein by reference.

² *See, e.g.*, <https://support.google.com/chromecast/answer/3265953?hl=en>.

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	<p>via an app store or Chromecast-enabled site URL) that allows a user to transfer playback of streaming media content from the smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player's playback using the Cast-enabled app will be referred to as a "Cast-enabled computing device."</p> <p>As set out in the Supplemental Infringement Contentions, Sonos has endeavored to list the possible third-party smartphone, tablet, and computer devices that may have been used to download and install one or more accused Cast-enabled apps between May 2018 to present. <i>See Appx. 1.</i> Each of these third-party smartphone, tablet, and computer devices, when installed with at least one Cast-enabled app, meets all elements of the claims as explained in more detail herein. As set forth below, Sonos cites representative examples of Google smartphone, tablet, and computer devices meeting elements 1.1, 1.2, and 1.3, but notes that the hardware aspects recited in elements 1.1, 1.2, and 1.3 have become ubiquitous among all smartphone, tablet, and computer devices. Each possible third-party smartphone, tablet, and computer device listed in Appendix 1 contains these aspects and thus meets elements 1.1, 1.2, and 1.3.</p> <p>There are also many different Cast-enabled media players to which playback of streaming media content can be transferred from a Cast-enabled computing device. This includes Google's own Cast-enabled media players, such as the Home Mini, Nest Mini, Home, Home Max, Home Hub, Nest Hub, Nest Hub Max, Nest Wifi Point, Chromecast, Chromecast Audio, Chromecast Ultra, Chromecast with Google TV, and Nest Audio media players, as well as various other third-party media players with built-in Cast functionality. <i>See, e.g.,</i> https://store.google.com/us/product/google_home_max?hl=en-US; https://store.google.com/us/product/chromecast_google_tv_compare?hl=en-US; https://www.google.com/chromecast/built-in/audio/.</p> <p>Certain of these Cast-enabled media players also include a display screen and firmware that enables the Cast-enabled media players to additionally function as a control device for other Cast-enabled media players. This sub-category of Cast-enabled media players, which will be referred to herein as "Cast-enabled displays," includes Google's Home Hub, Nest Hub, and Nest Hub Max media players. <i>See, e.g.,</i> https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music; https://store.google.com/us/product/google_nest_hub_max?hl=en-US; https://support.google.com/googlenest/answer/9165738?hl=en. Similar to the Cast-enabled computing devices, these Cast-enabled displays have Cast-enabled software (e.g., firmware and/or Cast-enabled apps)</p>

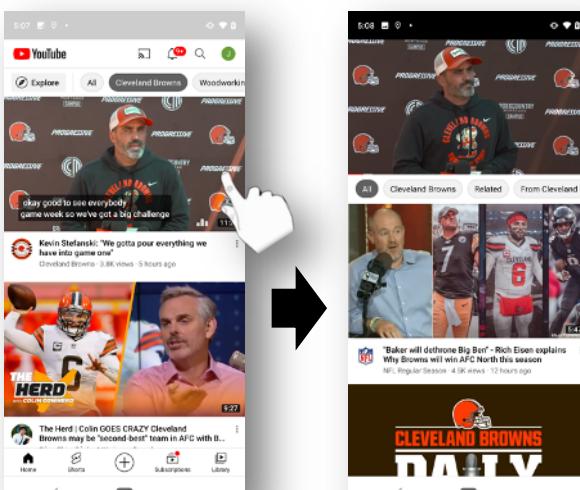
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	<p>that allows a user to transfer playback of streaming media content from the Cast-enabled display to another Cast-enabled media player and then control that other Cast-enabled media player's playback using the Cast-enabled display's user interface. For purposes of this chart, Cast-enabled computing devices and Cast-enabled displays may be referred to collectively as "Cast-enabled control devices."</p> <p>Google also hosts backend software on Cloud-based infrastructure owned and/or operated by Google (sometimes referred to as Google Cloud Platform or "GCP" for short) that facilitates the aforementioned Cast functionality for transferring playback of streaming media content from a Cast-enabled control device to a Cast-enabled media player and/or controlling the Cast-enabled media player's playback.</p> <p>As described in further detail below, each Cast-enabled control device is a "computing device," as recited in claim 1. Further, because each Cast-enabled media player is a data network device (<i>i.e.</i>, a device that is configured to connect to and communicate over a medium that interconnects devices in a manner that enables them to send digital data packets to and receive digital data packets from each other) and is configured to process and output audio, each Cast-enabled media player is a "playback device" as recited in claim 1. <i>See, e.g.</i>, Pl.'s Opening Markman Br. (D.I. 60 of 20-cv-881-ADA) at pp. 4-6, 23-26, Exs. 24-25; Pl.'s Reply Markman Br. (D.I. 66 of 20-cv-881-ADA) at pp. 2-3, 10-12, Exs. 26-27; SONOS-SVG2-00018184 - SONOS-SVG2-00018236 [ITC Order No. 20] at p. 15; https://support.google.com/googlenest/answer/7072284?hl=en; https://support.google.com/chromecast/answer/3046409?hl=en; https://store.google.com/us/product/nest_wifi_specs?hl=en-US.</p>
[1.1] at least one processor;	<p>Each Cast-enabled control device includes at least one processor. <i>See, e.g.</i>, https://store.google.com/us/magazine/compare_pixel; https://store.google.com/us/product/google_pixelbook_specs; https://store.google.com/us/product/pixel_slate_specs; https://store.google.com/us/product/google_home_max?hl=en-US.</p>
[1.2] a non-transitory computer-readable medium;	<p>Each Cast-enabled control device includes a non-transitory computer-readable medium. <i>See, e.g.</i>, https://store.google.com/us/magazine/compare_pixel; https://store.google.com/us/product/google_pixelbook_specs; https://store.google.com/us/product/pixel_slate_specs; https://store.google.com/us/product/google_home_max?hl=en-US.</p>

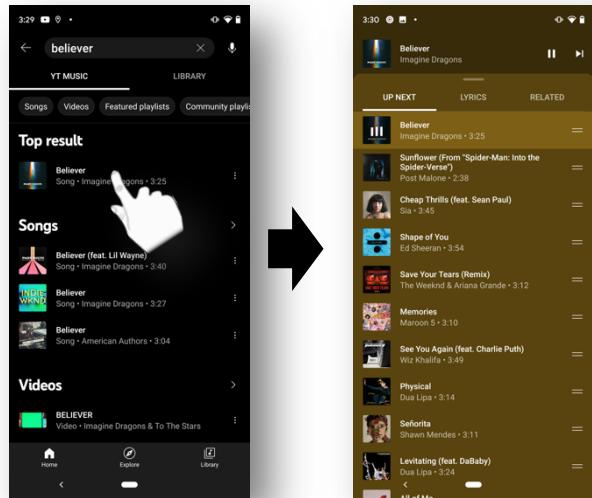
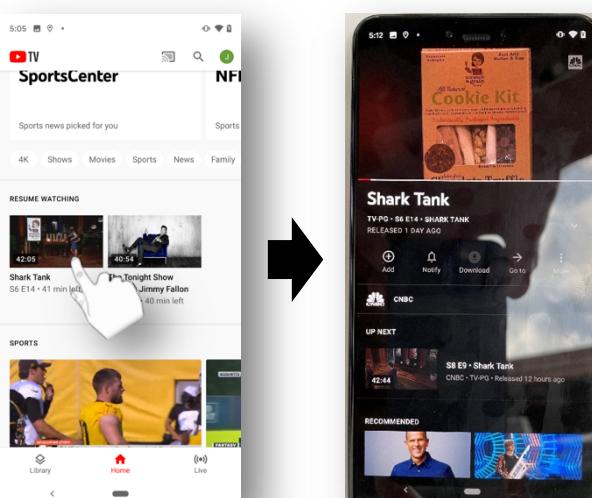
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<p>[1.3] and program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the computing device to perform functions comprising:</p>	<p>Each Cast-enabled control device includes program instructions stored on the non-transitory computer-readable medium that enable the Cast-enabled control device to perform the functions identified below. <i>See, e.g.</i>, https://store.google.com/us/magazine/compare_pixel; https://store.google.com/us/product/google_pixelbook_specs; https://store.google.com/us/product/pixel_slate_specs; https://store.google.com/us/product/google_home_max?hl=en-US.</p>
<p>[1.4] operating in a first mode in which the computing device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service;</p>	<p>Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device's non-transitory computer-readable medium that, when executed by the Cast-enabled control device's processor, cause the Cast-enabled control device to operate in a first mode in which the Cast-enabled control device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service.</p> <p>For instance, each Cast-enabled computing device is programmed with the capability to operate in a mode in which the Cast-enabled computing device is configured for playback of a remote playback queue provided by a cloud-based computing system that takes the form of one or more cloud servers associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, YouTube TV, YouTube Kids, etc. or a third-party service such as Spotify, etc.) that are remote from the Cast-enabled computing device and accessible over the Internet, which may be operated by Google or a third-party service provider. <i>See, e.g.</i>, https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another]; https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast]; https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch</p>

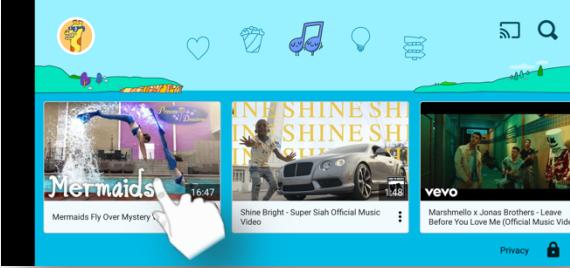
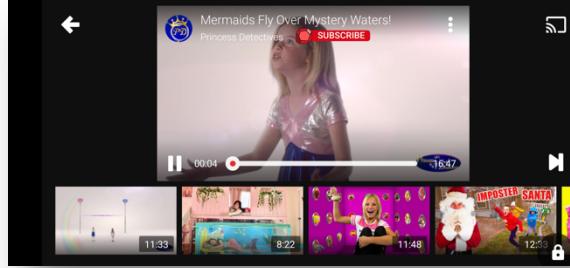
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	<p>YouTube Kids videos on your TV]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab]; https://support.google.com/youtube/answer/6327615?hl=en [Autoplay videos]; https://developers.google.com/cast/docs/web_receiver/queueing; https://developers.google.com/cast/docs/ios_sender/queueing; https://developers.google.com/cast/docs/android_sender/queueing; <i>see also, e.g.</i>, GOOG-SONOSWDTX-00042745 [REDACTED]</p> <p>[REDACTED].</p> <p>Cast-enabled computing devices installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids apps, as illustrated by the following screenshots:</p> 

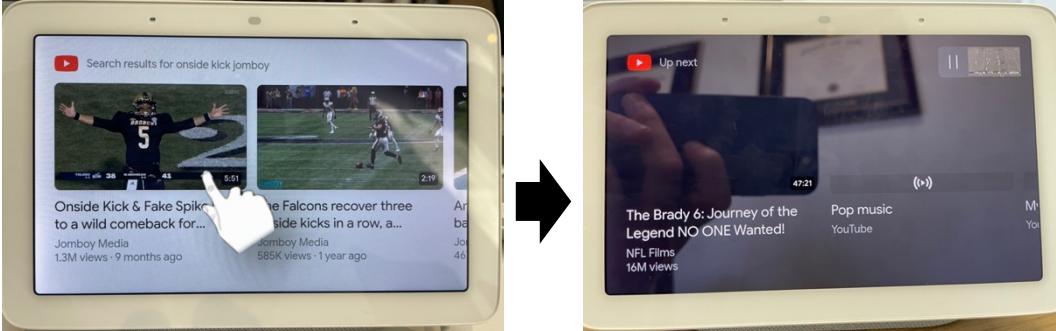
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Claim 1	Accused Instrumentalities
	
	

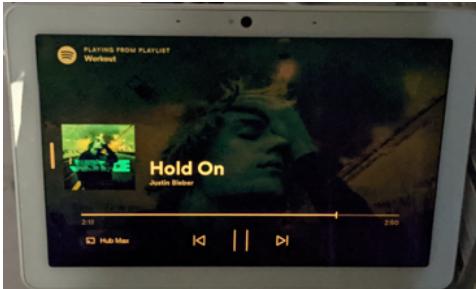
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Claim 1	Accused Instrumentalities
	  <p>Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshot:</p>  <p>Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g.</i>, https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/.</p>

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Claim 1	Accused Instrumentalities
	<p>Each Cast-enabled display is also programmed with the capability to operate in a mode in which the Cast-enabled display is configured for playback of a remote playback queue provided by a cloud-based computing system that takes the form of one or more cloud servers associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, etc., or a third-party service such as Spotify, etc.) that are remote from the Cast-enabled display and accessible over the Internet, which may be operated by Google or a third-party service provider. <i>See, e.g.</i>, https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music (“YouTube Music on demand. . . Stream top music services.”); https://store.google.com/us/product/google_nest_max?hl=en-US (“[J]am out with YouTube Music.”); https://support.google.com/googlenest/answer/9165738?hl=en (“With YouTube built-in to your Google Nest display, you can watch YouTube Originals, how-to videos and much more, seamlessly on your screen.”).</p> <p>Cast-enabled displays installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music apps, as illustrated by the following photos:</p> 

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Claim 1	Accused Instrumentalities
	 <p>Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:</p>  <p>Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p> <p>Further details regarding how a Cast-enabled control device carries out this functionality, along with representative examples of other evidence demonstrating this functionality, are summarized below.</p> <p><u>YouTube, YouTube Music, YouTube TV, & YouTube Kids apps</u></p> <p>Each Cast-enabled computing device installed with any one of the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed such that it can operate in a mode in which the Cast-enabled computing</p>

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Claim 1	Accused Instrumentalities
	<p>device is configured for playback of a remote playback queue ([REDACTED]) provided by one or more cloud servers ([REDACTED]) associated with the YouTube, YouTube Music, YouTube TV, or YouTube Kids media service. The aforementioned functionality satisfies claim limitation 1.4.</p> <p>The following exemplary evidence demonstrates that each Cast-enabled control device installed with the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed with this functionality:</p> <ul style="list-style-type: none"> • [REDACTED] • https://support.google.com/youtubekids/answer/6130531?hl=en [Recommended videos]; • https://support.google.com/youtubekids/answer/6138623?hl=en&co=GENIE.Platform%3DAndroid [Accessibility on YouTube Kids] (“When autoplay is turned on, we’ll automatically play another related video.”); • [REDACTED] • [REDACTED] • [REDACTED]

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Claim 1	Accused Instrumentalities
	<ul style="list-style-type: none"><li data-bbox="544 246 1888 328">• [REDACTED]<li data-bbox="544 344 1888 600">[REDACTED]<li data-bbox="734 621 1634 1351">[REDACTED]<li data-bbox="544 1372 747 1405">• <i>Id.</i> at 90-91;

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Claim 1	Accused Instrumentalities
	<p>• [REDACTED]</p> <p>Representative excerpts of Google's YouTube app source code³ related to the aforementioned functionality include:</p> <p>[REDACTED]</p> <p>• [REDACTED]</p> <p>[REDACTED]</p>

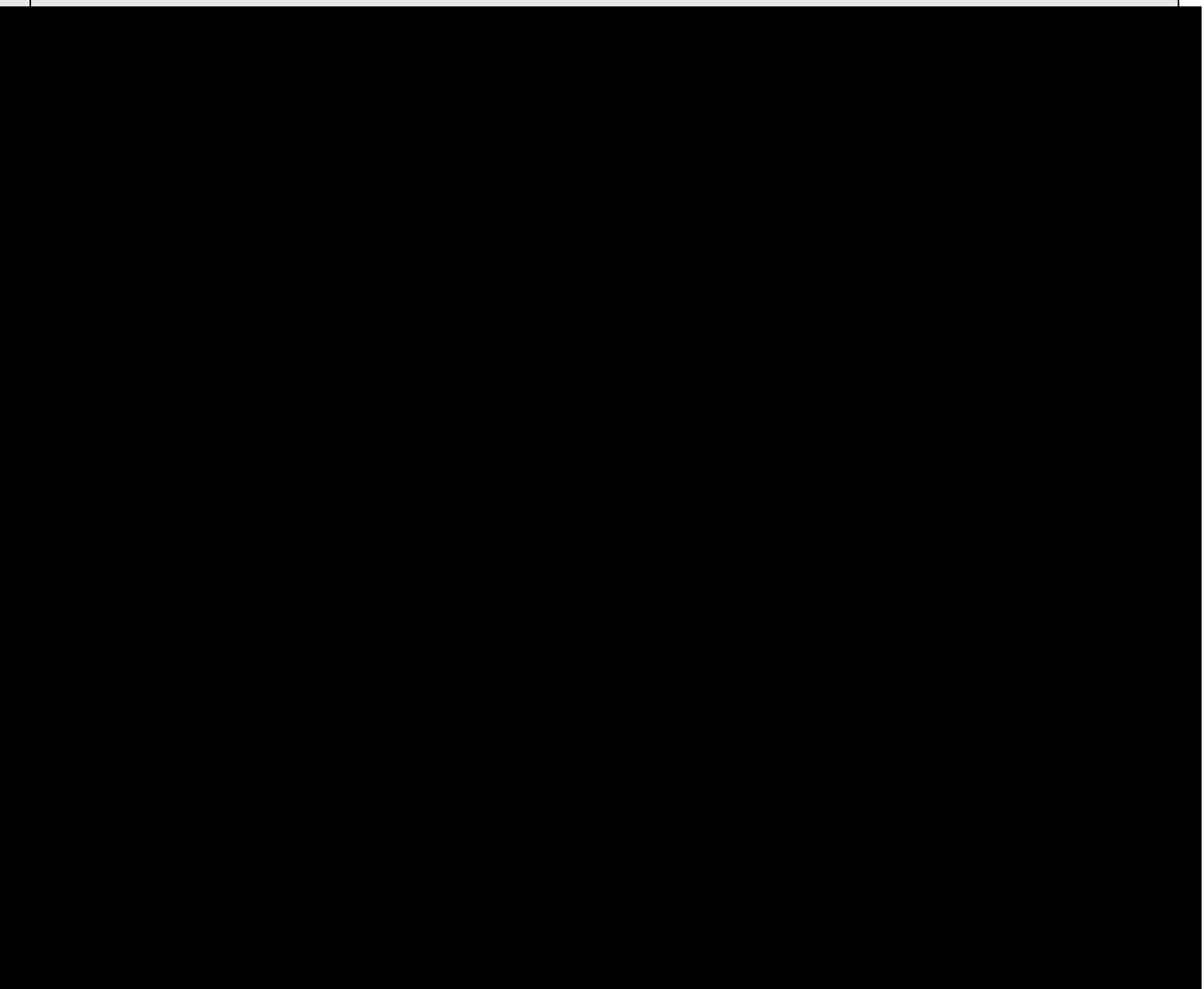
³ [REDACTED]

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Claim 1	Accused Instrumentalities

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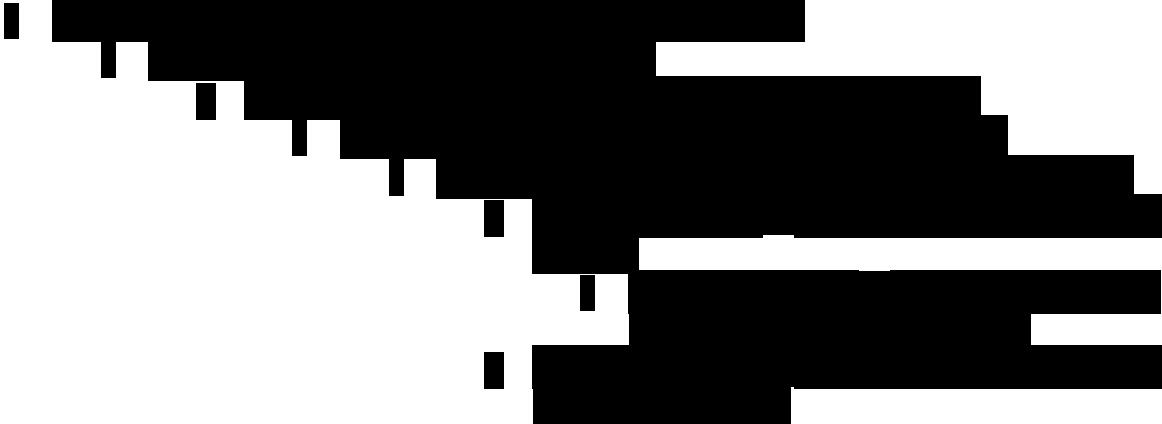
Claim 1



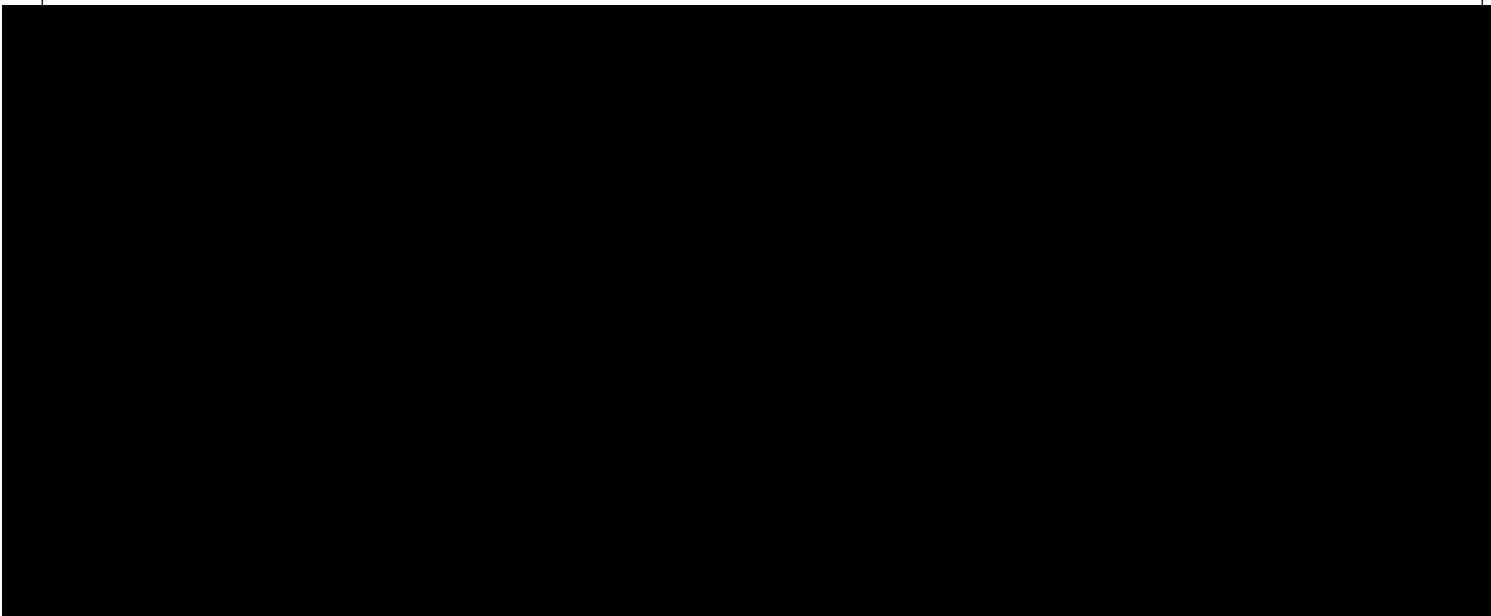
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Claim 1	
	[Redacted Content]

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Claim 1	<u>Accused Instrumentalities</u>
	 <p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 15, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p> <p><u>Spotify app</u></p> <p>Each Cast-enabled computing device installed with the Spotify app is programmed such that it can operate in a mode in which the Cast-enabled computing device is configured for playback of a remote playback queue [REDACTED] provided by one or more cloud servers associated with the Spotify media service. The aforementioned functionality satisfies claim limitation 1.4.</p> <p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 15, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p> <p><u>Cast-Enabled Displays</u></p> <p>Each Cast-enabled display is programmed such that it can operate in a mode in which the Cast-enabled display is configured for playback of a remote playback queue provided by one or more cloud servers</p>

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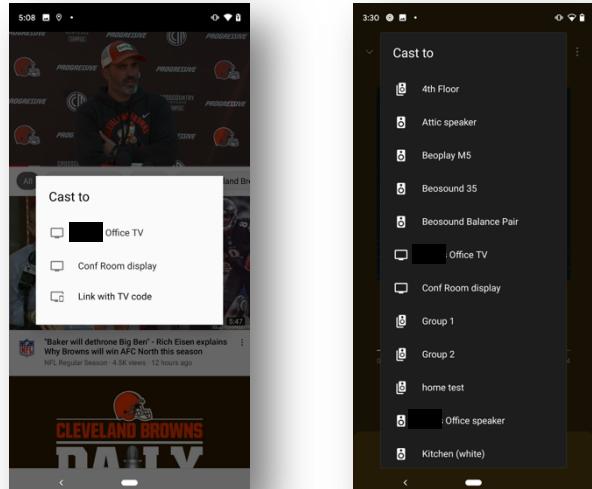
Claim 1	Accused Instrumentalities
	<p>associated with a particular media service that the Cast-enabled display was selected to playback from (e.g., YouTube, YouTube Music, Spotify, etc.). The aforementioned functionality satisfies claim limitation 1.4.</p> <p>The following exemplary evidence demonstrates that each Cast-enabled display is programmed with this functionality:</p> <ul style="list-style-type: none"> • https://developers.google.com/cast/docs/web_receiver/queueing?hl=en (“Queueing allows partner applications to better integrate with Cast by providing the following features: Support of Google’s and partner’s cloud queue implementation so externally stored and created queue can be directly loaded into Cast devices.”). <p>Representative excerpts of Google’s Cast-enabled display source code⁶ related to the aforementioned functionality include:</p> 

⁶ [REDACTED]

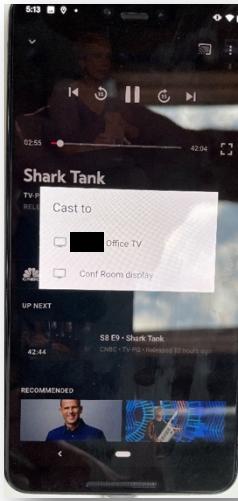
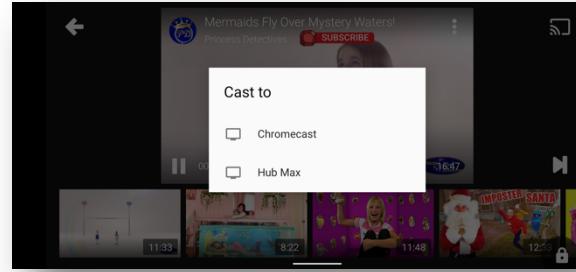
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Claim 1	Accused Instrumentalities ○ [REDACTED]
	<p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 15, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p>
<p>[1.5] while operating in the first mode, displaying a representation of one or more playback devices in a media playback system that are each i) communicatively coupled to the computing device over a data network and ii) available to accept playback responsibility for the remote playback queue;</p>	<p>Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device's non-transitory computer-readable medium that, when executed by the Cast-enabled control device's processor, cause the Cast-enabled control device to, while operating in the first mode, display a representation of one or more Cast-enabled media players in a Cast-enabled playback system that are each (i) communicatively coupled to the Cast-enabled control device over a data network and (ii) available to accept playback responsibility for the remote playback queue.</p> <p>For instance, each Cast-enabled computing device is programmed such that, while operating in a mode in which the Cast-enabled computing device is configured for playback of a remote playback queue provided by a cloud server associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, YouTube TV, YouTube Kids, etc., or a third-party service such as Spotify, etc.), the Cast-enabled computing device is operable to detect a selection of a displayed selectable option ([REDACTED]) for transferring playback of audio content (e.g., music, podcasts, etc.) and/or audiovisual content (e.g., videos) from the Cast-enabled computing device to another device, which triggers the Cast-enabled computing device to display a list of available devices for transferring playback that includes one or more Cast-enabled media players in a Cast-enabled playback system that are each (i) communicatively coupled to the Cast-enabled computing device over a Wi-Fi network and (ii) available to accept playback responsibility for the remote playback queue. <i>See, e.g.</i>, https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display] ("Tap the Cast button [REDACTED] . . . Tap the speaker or display for which you'd like to cast."); https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers] ("2. In the top right corner, tap the Cast button [REDACTED] 3. Choose your speaker."); https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com] ("Tap the Cast button [REDACTED] . . . Tap the Chromecast device to which you want to cast."); https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast</p>

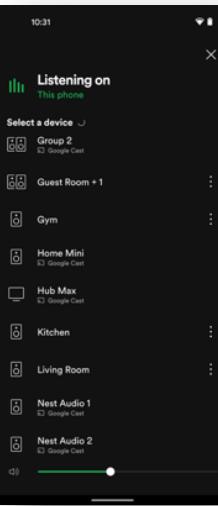
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	<p>YouTube TV using Chromecast] (“Tap Cast  . This is found at the top of the app Home screen. []Choose the device you want to cast to.”); https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch YouTube Kids videos on your TV]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab].</p> <p>Under the plain and ordinary meaning of the term “data network,” which is a medium that interconnects devices in a manner that enables them to send digital data packets to and receive digital data packets from each other, a Wi-Fi network is a “data network” as that term is used in claim 1. <i>See, e.g.</i>, Pl.’s Opening Markman Br. (D.I. 60 of 20-cv-881-ADA) at pp. 23-26, Exs. 24-25; Pl.’s Reply Markman Br. (D.I. 66 of 20-cv-881-ADA) at pp. 10-12, Exs. 26-27.</p> <p>Cast-enabled computing devices installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids apps, as illustrated by the following screenshots:</p> 

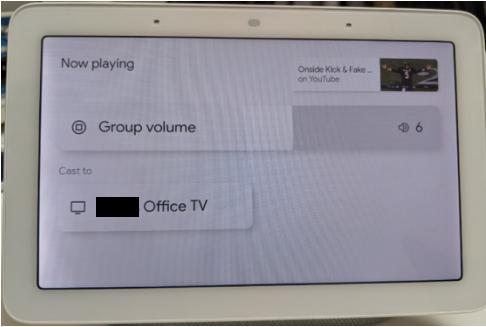
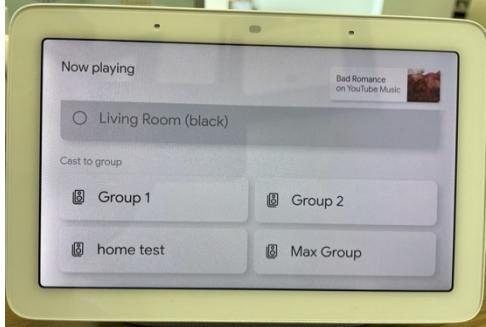
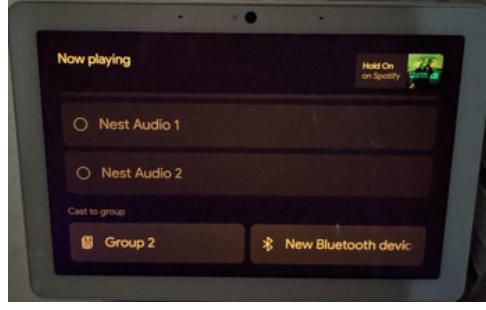
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	  <p><i>See also, e.g., GOOG-SONOSWDTX-00041499 [REDACTED]; GOOG-SONOSWDTX-00037739 [REDACTED] at 66-81.</i></p> <p>Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshot:</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	<p data-bbox="1051 262 1290 768">  </p> <p data-bbox="487 833 1902 948"> Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g.</i>, https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/. </p> <p data-bbox="487 980 1902 1383"> Each Cast-enabled display is also programmed such that, while operating in a mode in which the Cast-enabled display is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, etc., or a third-party service such as Spotify, etc.), the Cast-enabled display is operable to detect a selection of a displayed selectable option (██████████) for transferring playback of audio content (e.g., music, podcasts, etc.) and/or audiovisual content (e.g., videos) from the Cast-enabled display to another device, which triggers the Cast-enabled display to display a list of available devices for transferring playback that includes one or more other Cast-enabled media players in a Cast-enabled playback system that are each (i) communicatively coupled to the Cast-enabled display over a Wi-Fi network and (ii) available to accept playback responsibility for the remote playback queue. <i>See, e.g.</i>, https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to </p>

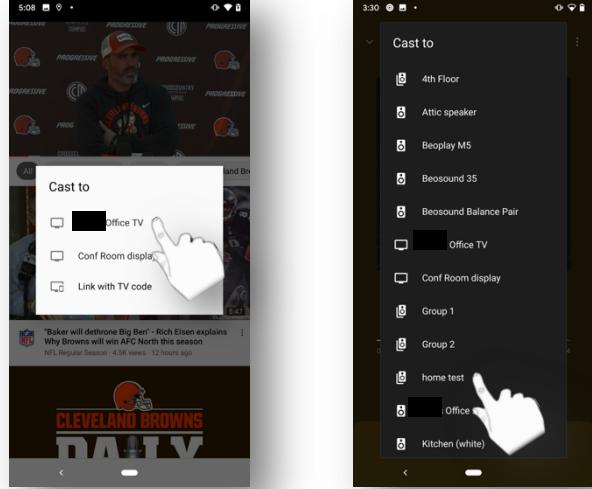
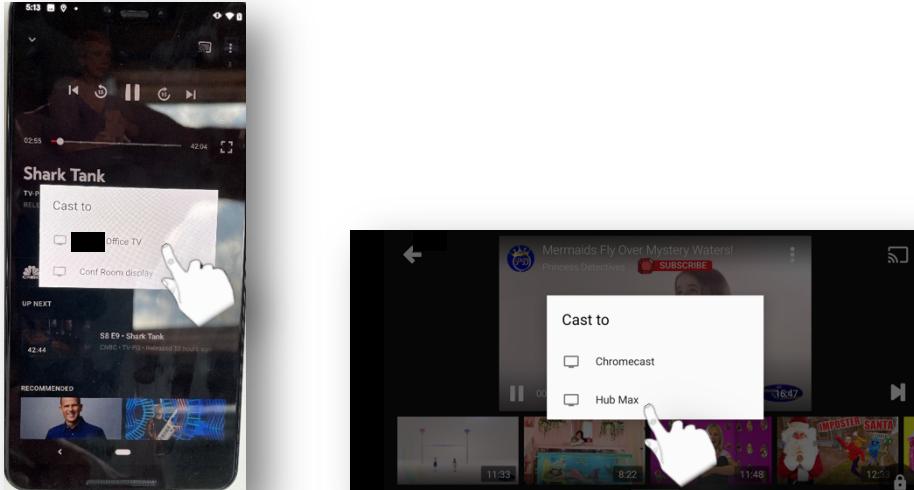
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	<p>another] (“At the bottom-left corner of the screen, tap Devices ☰ to see the list of available devices and speaker groups. . . . Select the device for which you want to move your media.”).</p> <p>Cast-enabled displays installed with various Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music apps, as illustrated by the following photos:</p> <div style="display: flex; justify-content: space-around;">   </div> <p>Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:</p> <div style="text-align: center;">  </div> <p>Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p>

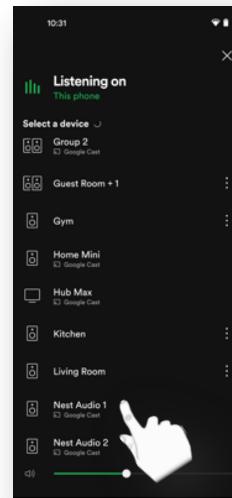
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
<p>[1.6] while displaying the representation of the one or more playback devices, receiving user input indicating a selection of at least one given playback device from the one or more playback devices;</p>	<p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p> <p>Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device's non-transitory computer-readable medium that, when executed by the Cast-enabled control device's processor, cause the Cast-enabled control device to, while displaying the representation of the one or more Cast-enabled media players, receive user input indicating a selection of at least one given Cast-enabled media player from the one or more Cast-enabled media players.</p> <p>For instance, each Cast-enabled computing device is programmed such that, while displaying the representation of the one or more Cast-enabled media players in a Cast-enabled playback system that are each on the same Wi-Fi network as the Cast-enabled computing device and available to accept playback responsibility for the remote playback queue, the Cast-enabled computing device is configured to receive user input indicating a selection of at least one Cast-enabled media player in the Cast-enabled playback system, which is the claimed "at least one given playback device" selected from "the one or more playback devices." <i>See, e.g.,</i> https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display] ("Tap the speaker or display for which you'd like to cast."); https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers] ("3. Choose your speaker."); https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com] ("Tap the Chromecast device to which you want to cast."); https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast] ("4. Choose the device you want to cast to."); https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch YouTube Kids videos on your TV]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another].</p> <p>Cast-enabled computing devices installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids apps, as illustrated by the following screenshots:</p>

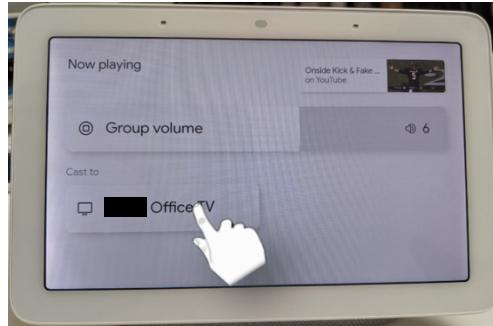
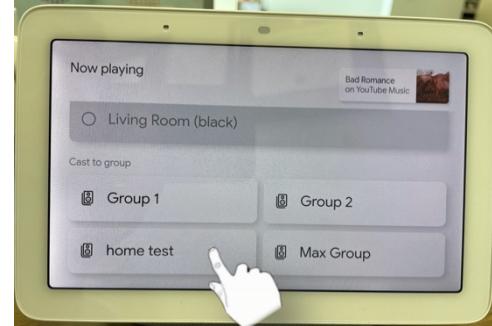
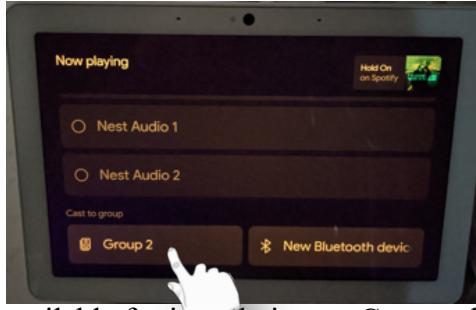
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	
	

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	<p><i>See also, e.g., GOOG-SONOSWDTX-00041499 [REDACTED] GOOG-SONOSWDTX-00037739 [REDACTED] at 66-81.</i></p> <p>Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshot:</p>  <p>Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g., https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/.</i></p> <p>Each Cast-enabled display is also programmed such that, while displaying the representation of the one or more other Cast-enabled media players in a Cast-enabled playback system that are each on the same Wi-Fi network as the Cast-enabled display and available to accept playback responsibility for the remote playback queue, the Cast-enabled display is configured to receive user input indicating a selection of at least one other Cast-enabled media player in the Cast-enabled playback system, which is the claimed “at least one given playback device” selected from “the one or more playback devices.” <i>See, e.g.,</i></p>

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Claim 1	Accused Instrumentalities
	<p>https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another] (“Select the device(s) to which you want to move your media.”).</p> <p>Cast-enabled displays installed with various Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music apps, as illustrated by the following photos:</p> <div style="display: flex; justify-content: space-around;">   </div> <p>Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:</p> <div style="text-align: center;">  </div> <p>Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
<p>[1.7] based on receiving the user input, transmitting an instruction for the at least one given playback device to take over responsibility for playback of the remote playback queue from the computing device, wherein the instruction configures the at least one given playback device to (i) communicate with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one</p>	<p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p> <p>Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device's non-transitory computer-readable medium that, when executed by the Cast-enabled control device's processor, cause the Cast-enabled control device to, based on receiving the user input, transmit an instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue from the Cast-enabled control device, wherein the instruction configures the at least one given Cast-enabled media player to (i) communicate with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service, and (iii) play back the retrieved at least one media item.</p> <p>For instance, each Cast-enabled control device is programmed such that, based on receiving user input indicating a selection of at least one Cast-enabled media player in the Cast-enabled playback system that is on the same Wi-Fi network as the Cast-enabled control device and available to accept playback responsibility for the remote playback queue, the Cast-enabled control device is operable to transmit an instruction for the at least one Cast-enabled media player (which is the claimed "at least one given playback device") to take over responsibility for playback of the remote playback queue from the Cast-enabled computing device, where the instruction configures the at least one Cast-enabled media player to:</p> <ul style="list-style-type: none"> • communicate with one or more cloud servers associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, YouTube TV, YouTube Kids, etc., or a third-party service such as Spotify, etc.) that is remote from the Cast-enabled computing device and the at least one Cast-enabled media player and accessible over the Internet, which may be operated by Google or a third-party service provider, in order to obtain data identifying a next one or more media items that are in the remote playback queue (e.g., resource locators for such media items), • use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and • play back the retrieved at least one media item.

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Claim 1	Accused Instrumentalities
media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item;	<p><i>See, e.g.</i>, https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display]; https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com]; https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast]; https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch YouTube Kids videos on your TV]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another]; https://developers.google.com/cast/docs/web_receiver/queueing; https://developers.google.com/cast/docs/ios_sender/queueing (“The Web Receiver SDK maintains the queue and responds to operations on the queue as long as the queue has at least one item currently active (playing or paused.”); https://developers.google.com/cast/docs/android_sender/queueing (“The Receiver SDK maintains the queue and responds to operations on the queue as long as the queue has at least one item currently active (playing or paused.”)).</p> <p>As noted above, Google’s own documents acknowledge that each Cast-enabled media player (often referred to by Google as a “[REDACTED]”⁷) is programmed to maintain a local playback queue of one or more resource locators, each for multimedia content (e.g., a song or video) that is to be played back by the Cast-enabled media player. <i>See, e.g.</i>,</p> <p>[REDACTED]</p>

⁷ *See, e.g.*,

[REDACTED]

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Claim 1	Accused Instrumentalities
	[Redacted Content]

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Claim 1	Accused Instrumentalities
	<p>Further details regarding how a Cast-enabled control device carries out this functionality, along with representative examples of evidence demonstrating this functionality, are summarized below.</p> <p><u>YouTube, YouTube Music, YouTube TV, & YouTube Kids apps</u></p> <p>Each Cast-enabled computing device installed with any one of the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed such that, after receiving user input indicating a selection of at least one particular Cast-enabled media player in the Cast-enabled playback system that is to take over playback responsibility, the Cast-enabled computing device functions to:</p> <ul style="list-style-type: none"><li data-bbox="544 861 608 894">• (i) [REDACTED]<li data-bbox="544 959 608 992">[REDACTED]<li data-bbox="544 1057 608 1090">[REDACTED]<li data-bbox="544 1155 608 1188">[REDACTED]<li data-bbox="544 1253 608 1286">[REDACTED]<li data-bbox="544 1351 608 1383">[REDACTED]

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	[REDACTED]

8 [REDACTED]

[REDACTED]

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	<ul style="list-style-type: none"><li data-bbox="851 321 1736 344">• Sonos notes that Google did not produce for review the source code defining [REDACTED]<li data-bbox="851 344 1736 430">[REDACTED] [REDACTED]; [REDACTED]<li data-bbox="851 430 1736 518">• Sonos notes that Google did not produce for review the source code defining [REDACTED] [REDACTED] 12<li data-bbox="851 518 1736 605">• Sonos also notes that Google did not produce for review the source code [REDACTED] [REDACTED] 13

11
[REDACTED]
[REDACTED]
[REDACTED]

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Claim 1	Accused Instrumentalities
	<p>The messages that are sent by the Cast-enabled computing device as part of this process individually or collectively amount to the claimed “instruction for the at least one given playback device to take over responsibility for playback of the remote playback queue from the computing device.”</p> <p>Moreover, Sonos contends that the data contained in Google’s [REDACTED] amounts to the claimed “obtain[ed] data identifying a next one or more media items that are in the remote playback queue.”</p> <p>The following exemplary evidence demonstrates that each Cast-enabled control device installed with the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed to perform this functionality:</p> <ul style="list-style-type: none"> i [REDACTED]

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	<p>• [REDACTED]</p> <p>• [REDACTED]</p> <p>• [REDACTED]</p> <p>Representative excerpts of Google's YouTube app source code¹⁵ related to the aforementioned functionality include:</p> <p>[REDACTED]</p> <p>• [REDACTED]</p> <p>[REDACTED]</p>

15 [REDACTED]

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Claim 1	Accused Instrumentalities

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

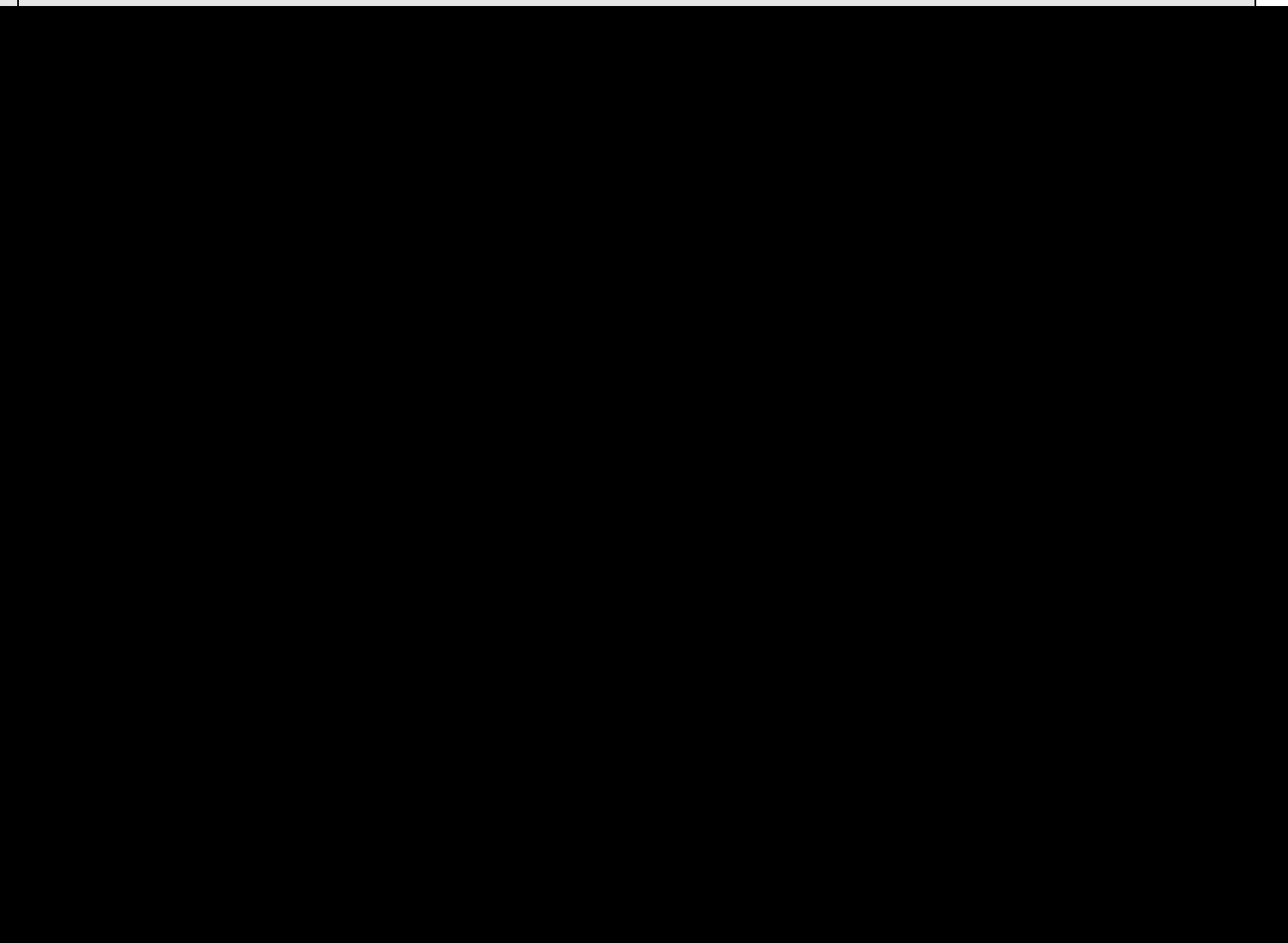
Claim 1	Accused Instrumentalities

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Claim 1	Accused Instrumentalities

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

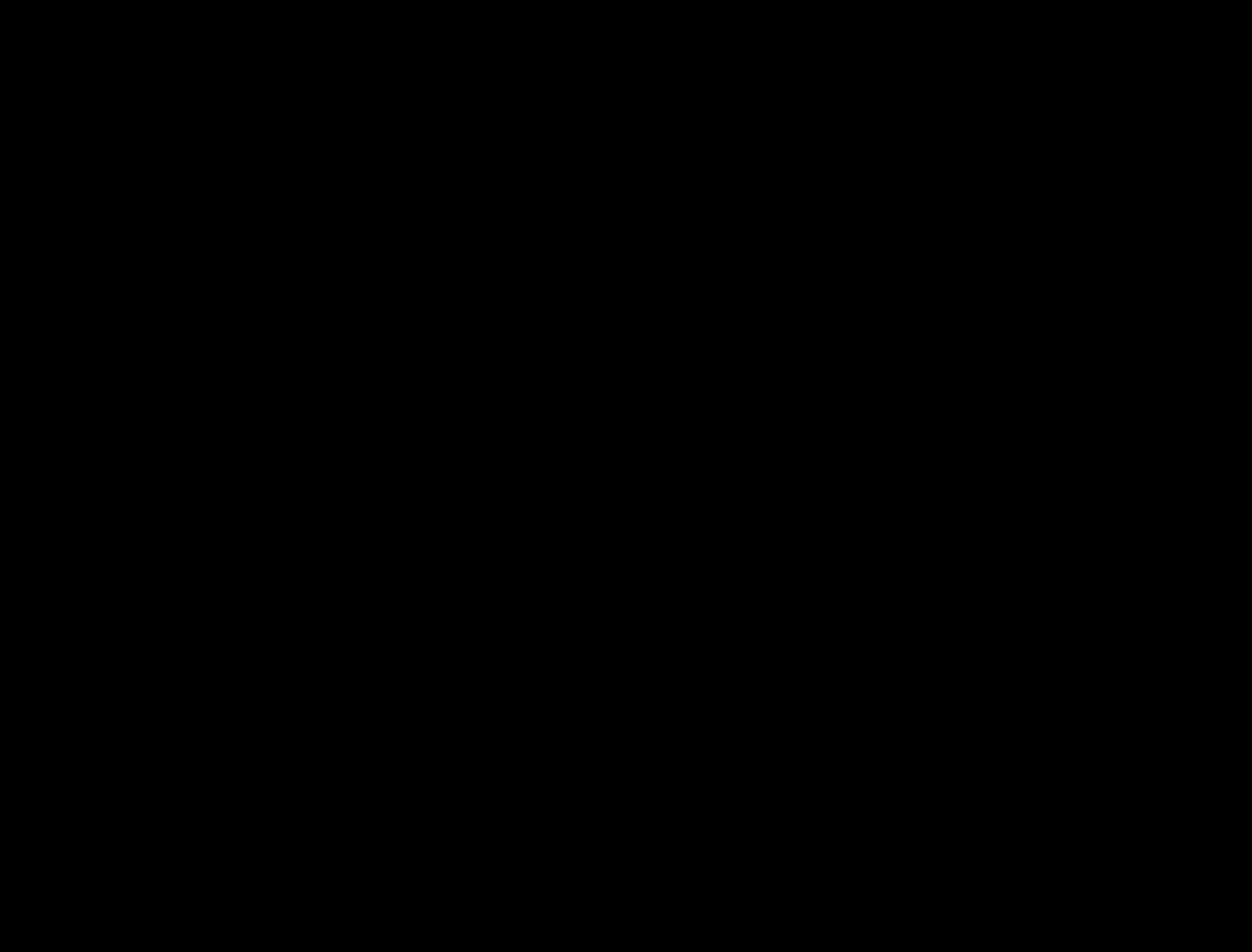
Claim 1



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Claim 1	Accused Instrumentalities

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	 <u>Spotify app</u>

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Claim 1	Accused Instrumentalities
	<p>Each Cast-enabled control device installed with the Spotify app (which is Cast-enabled and utilizes the Cast SDK) is programmed such that, after receiving user input indicating a selection of at least one particular Cast-enabled media player in the Cast-enabled playback system that is to take over playback responsibility, the Cast-enabled computing device functions to:</p> <ul style="list-style-type: none"><li data-bbox="542 414 1721 437">• [REDACTED]<li data-bbox="542 474 1721 497">[REDACTED]<li data-bbox="542 594 1721 618">[REDACTED]<li data-bbox="542 713 1721 737">[REDACTED]<li data-bbox="542 833 1721 858">[REDACTED]<li data-bbox="542 953 1721 977">[REDACTED]<li data-bbox="542 1073 1721 1098">[REDACTED]<li data-bbox="542 1192 1721 1217">[REDACTED] <p>The messages that are sent by the Cast-enabled computing device as part of this process individually or collectively amount to the claimed “instruction for the at least one given playback device to take over responsibility for playback of the remote playback queue from the computing device.”</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	<p>The following exemplary evidence demonstrates that each Cast-enabled control device installed with the Spotify app is programmed with this functionality:</p> <ul style="list-style-type: none"> • [REDACTED] • https://developers.google.com/cast/docs/web_receiver/queueing?hl=en (“Queueing allows partner applications to better integrate with Cast by providing the following features: Support of Google’s and partner’s cloud queue implementation so externally stored and created queue can be directly loaded into Cast devices.”); • https://developers.google.com/cast/docs/reference/web_sender/chrome.cast.media.MediaInfo; • https://developers.google.com/cast/docs/reference/web_sender/chrome.cast.media.LoadRequest. <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory Nos. 14-15, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p> <p><u>Cast-Enabled Displays</u></p> <p>Each Cast-enabled display is programmed such that, after receiving user input indicating a selection of at least one particular Cast-enabled media player in the Cast-enabled playback system that is to take over playback responsibility, the Cast-enabled display functions to:</p> <ul style="list-style-type: none"> • [REDACTED]

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Claim 1	Accused Instrumentalities
	<ul style="list-style-type: none"> • [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] <p>The messages that are sent by the Cast-enabled display as part of this process individually or collectively amount to the claimed “instruction for the at least one given playback device to take over responsibility for playback of the remote playback queue from the computing device.”</p> <p>The following exemplary evidence demonstrates that each Cast-enabled display is programmed with this functionality:</p> <ul style="list-style-type: none"> • https://developers.google.com/cast/docs/web_receiver/core_features (“Stream transfer[.] Preserving session state is the basis of stream transfer, a CAF feature where users can move existing audio and video streams across devices using ... smart displays. Media stops playing on one device (the source) and continues on another (the destination).... The event flow for stream transfer is: <ol style="list-style-type: none"> 1. On the source device:

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Claim 1	Accused Instrumentalities
	<p>a. Media stops playing.</p> <p>b. The Web Receiver application receives a command to save the current media state.</p> <p>c. The Web Receiver application is shut down.</p> <p>2. On the destination device:</p> <p>a. The Web Receiver application is loaded.</p> <p>b. The Web Receiver application receives a command to restore the saved media state.</p> <p>c. Media resumes playing.</p> <p>Elements of media state include:</p> <ul style="list-style-type: none">• Specific position or timestamp of the song, video, or media item.• Its place in a broader queue (such as a playlist or artist radio).• The authenticated user.• Playback state (for example, playing or paused.”), <ul style="list-style-type: none">• <i>Id.</i> (“Preserving session state[.] The Web Receiver SDK provides a default implementation for Web Receiver apps to preserve session states by taking a snapshot of current media status, converting the status into a load request, and resuming the session with the load request.”);• https://developers.google.com/cast/docs/reference/web_receiver/cast.framework.messages.LoadRequestData [Class: LoadrequestData];• https://developers.google.com/cast/docs/reference/web_sender/chrome.cast.media.MediaInfo [Class: MediaInfo];• [REDACTED]

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Claim 1	Accused Instrumentalities
	<p>Representative excerpts of Google's Cast-enabled display source code²² related to the aforementioned functionality include:</p> <p>[REDACTED]</p> <p>[REDACTED]</p>

²² [REDACTED]

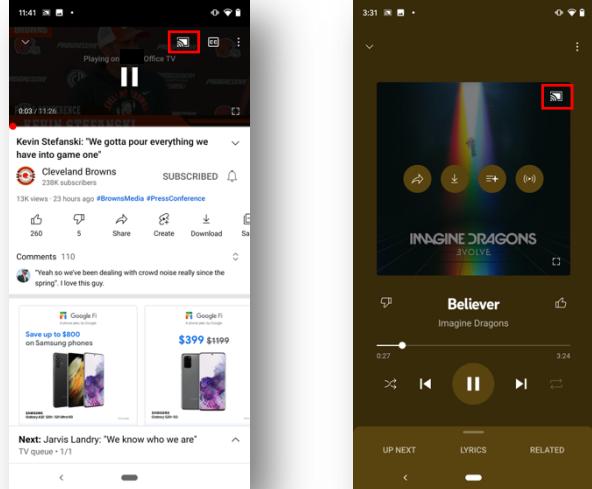
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory Nos. 14-15, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.
[1.8] detecting an indication that playback responsibility for the remote playback queue has been successfully transferred from the	<p>Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device's non-transitory computer-readable medium that, when executed by the Cast-enabled control device's processor, cause the Cast-enabled control device to detect an indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled control device to the at least one given Cast-enabled media player.</p> <p>For instance, each Cast-enabled computing device is programmed with the capability to detect an indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-</p>

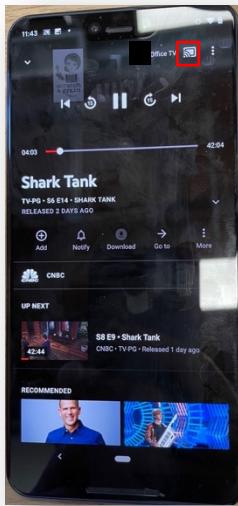
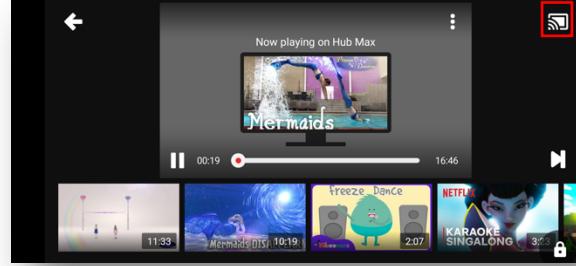
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
computing device to the at least one given playback device;	<p>enabled computing device to at least one Cast-enabled media player (which is the claimed “at least one given playback device”), which is demonstrated by the fact that the Cast-enabled computing device displays an indicator that playback responsibility for the remote playback queue has been successfully transferred to the at least one Cast-enabled media player that takes the form of a “Cast button” that is “filled in” or turns “dark grey” (among other factors confirming that the Cast-enabled computing device has detected an indication that playback responsibility for the remote playback queue has been successfully transferred to at least one Cast-enabled media player). <i>See, e.g.</i>, https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display] (“When you’re connected, the Cast button will turn from light to dark grey, letting you know that you’re connected.”); https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers] (“The Cast button will change colors , letting you know you’re connected.”); https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com]; https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast]; https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch YouTube Kids videos on your TV]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab].</p> <p>Cast-enabled computing devices installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids apps, as illustrated by the following screenshots:</p>

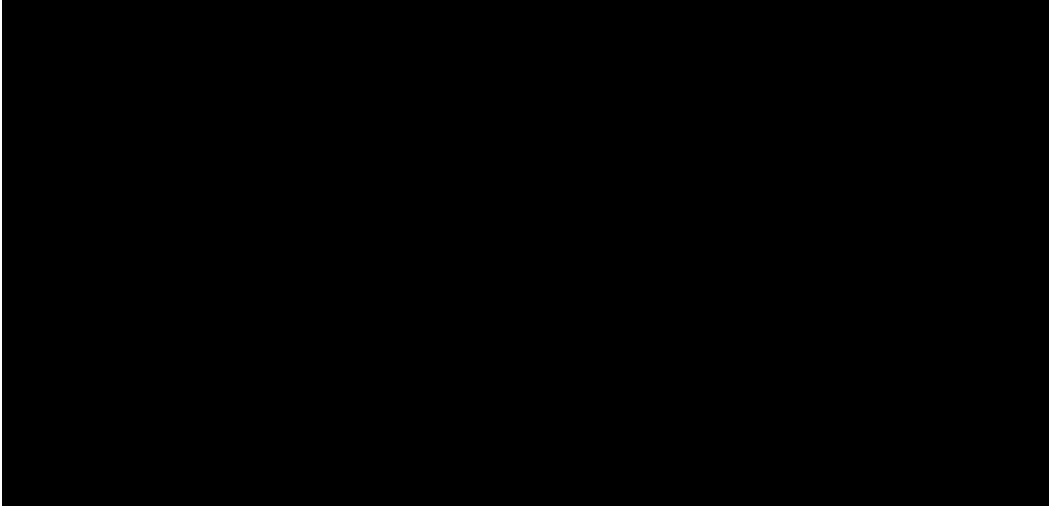
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	 <p>The image contains two side-by-side screenshots of mobile device screens. The left screenshot shows a YouTube video player interface. At the top, it says "Playing on Office TV". Below the video frame, there is a comment from "Kevin Stefanski" and some statistics: "238K subscribers" and "13K views 23 hours ago #BrownsMedia #PressConference". Below the video frame, there are like, dislike, share, and download buttons. A red box highlights the "Share" button. The right screenshot shows a music player interface. It displays a song by "Imagine Dragons" titled "Believer" from the album "EVOLVE". The play button is highlighted with a red box. Below the song title, it shows the duration "0:27" and "3:24". At the bottom of the screen, there are buttons for "UP NEXT", "LYRICS", and "RELATED".</p>

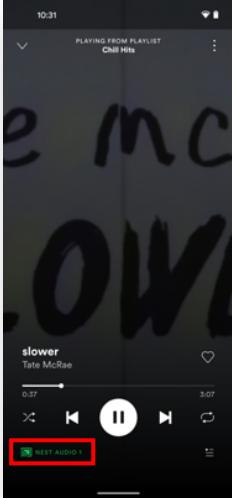
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	  <p data-bbox="487 833 1871 905"><i>See also, e.g., GOOG-SONOSWDTX-00041499 [REDACTED] at 500:</i></p>

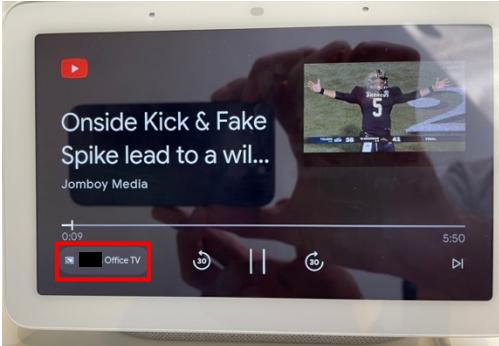
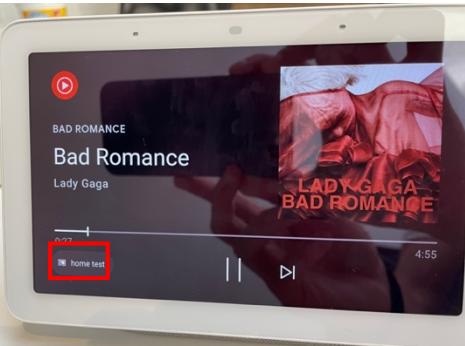
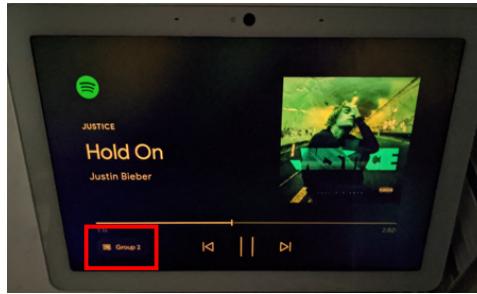
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	 <p>Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshot:</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	<p>Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g.</i>, https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/.</p> <p>Each Cast-enabled display is also programmed with the capability to detect an indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled display to at least one other Cast-enabled media player, which is demonstrated by the fact that the Cast-enabled computing device displays an indicator that playback responsibility for the remote playback queue has been successfully transferred to the at least one other Cast-enabled media player that takes the form of a “Cast button” that is “filled in,” turns “dark grey,” and/or displays an indication associated with the Cast-enabled media player (among other factors confirming that the Cast-enabled display has detected an indication that playback responsibility for the remote playback queue has been successfully transferred to at least one Cast-enabled media player). <i>See, e.g.</i>, https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another].</p> 

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	<p>Cast-enabled displays installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music, as illustrated by the following photos:</p> <div style="display: flex; justify-content: space-around;">   </div> <p>Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:</p> <div style="text-align: center;">  </div> <p>Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p> <p>Representative examples of other evidence demonstrating this functionality are summarized below.</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	<p><u>YouTube, YouTube Music, YouTube TV, & YouTube Kids apps</u></p> <p>In addition to the evidence cited above for limitation 1.7 and the YouTube, YouTube Music, and YouTube TV apps screenshots shown above, the following exemplary evidence demonstrates that each Cast-enabled control device installed with the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed with this functionality:</p> <ul style="list-style-type: none"> • [REDACTED] • [REDACTED] • [REDACTED] <p>Representative excerpts of Google's YouTube app source code²⁴ related to the aforementioned functionality include:</p> <pre>[REDACTED]</pre> <pre>[REDACTED]</pre> <ul style="list-style-type: none"> • [REDACTED] • [REDACTED] • [REDACTED]

24 [REDACTED]

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	<p>○ [REDACTED]</p> <p>■ [REDACTED]</p> <p>Representative excerpts of Google's YouTube Music app source code²⁵ related to the aforementioned functionality include:</p> <p>[REDACTED]</p> <p>■ [REDACTED]</p> <p>■ [REDACTED]</p> <p>■ [REDACTED]</p> <p>■ [REDACTED]</p>
	<p>Representative excerpts of Google's Cast-enabled media player source code²⁶ related to the aforementioned functionality include:</p> <p>[REDACTED]</p>

25 [REDACTED]

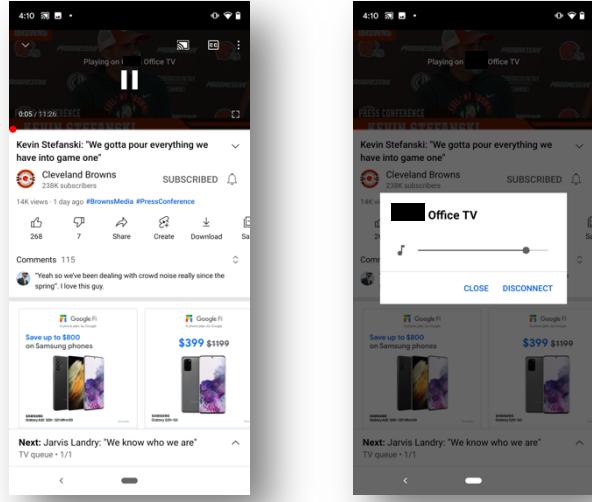
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	<p>i [REDACTED]</p> <p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p> <p><u>Spotify app</u></p> <p>The evidence cited above for limitation 1.7 and the Spotify app screenshots shown above demonstrates that each Cast-enabled control device installed with the Spotify app is programmed with this functionality.</p> <p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p> <p><u>Cast-Enabled Displays</u></p> <p>In addition to the evidence cited above for limitation 1.7 and the Cast-enabled display screenshots shown above, the following exemplary evidence demonstrates that each Cast-enabled display is programmed with this functionality:</p> <ul style="list-style-type: none"> • [REDACTED] [REDACTED]

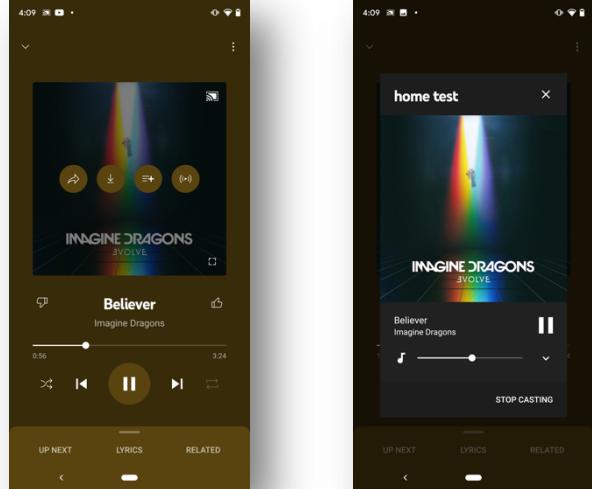
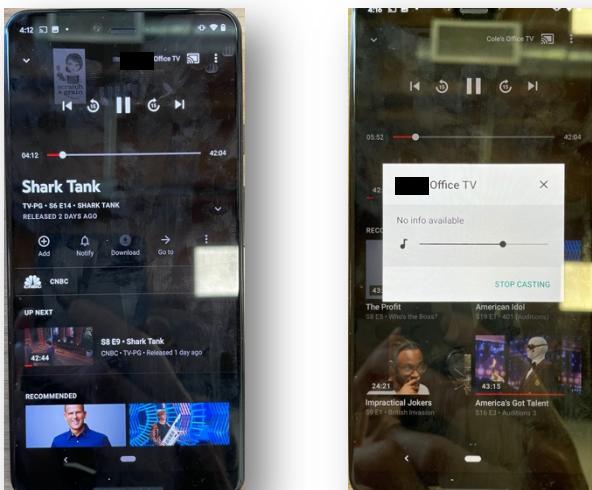
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.
[1.9] after detecting the indication, transitioning from i) the first mode in which the computing device is configured for playback of the remote playback queue to ii) a second mode in which the computing device is configured to control the at least one given playback device's playback of the remote playback queue and the computing device is no longer configured for playback of the remote playback queue.	<p>Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device's non-transitory computer-readable medium that, when executed by the Cast-enabled control device's processor, cause the Cast-enabled control device to, after detecting the indication, transition from (i) the first mode in which the Cast-enabled control device is configured for playback of the remote playback queue to (ii) a second mode in which the Cast-enabled control device is configured to control the at least one given Cast-enabled media player's playback of the remote playback queue and the Cast-enabled control device is no longer configured for playback of the remote playback queue.</p> <p>For instance, each Cast-enabled computing device is programmed such that, after detecting the indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled computing device to at least one Cast-enabled media player in the Cast-enabled playback system that is on the same Wi-Fi network as the Cast-enabled computing device (which is the claimed "at least one given playback device"), the Cast-enabled computing device is configured to transition from (i) a first mode in which the Cast-enabled computing device was configured for playback of the remote playback queue to (ii) a second mode in which the Cast-enabled computing device is configured to control the at least one Cast-enabled media player's playback of the remote playback queue (while the Cast-enabled computing device itself is no longer configured for playback of the remote playback queue). <i>See, e.g.</i>, https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display]; https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com]; https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast]; https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch YouTube Kids videos on your TV]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab].</p>

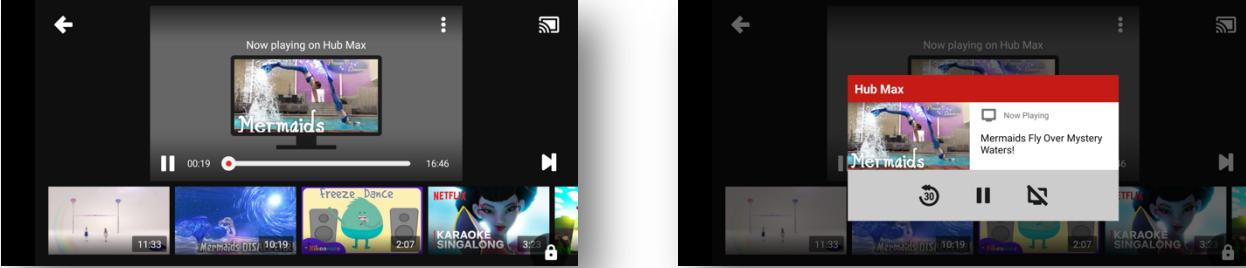
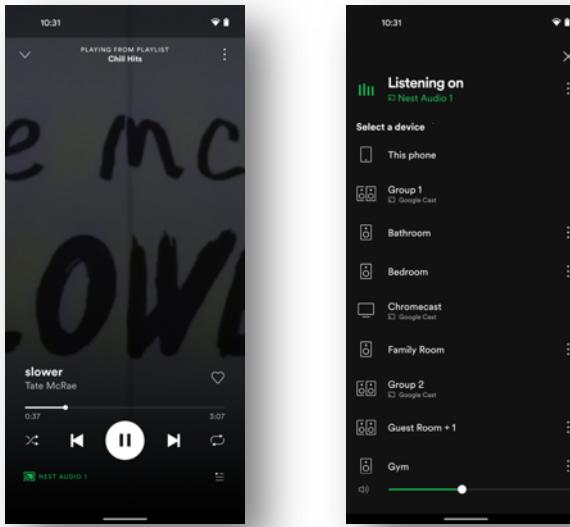
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	<p>Cast-enabled computing devices installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids apps, as illustrated by the following screenshots:</p> 

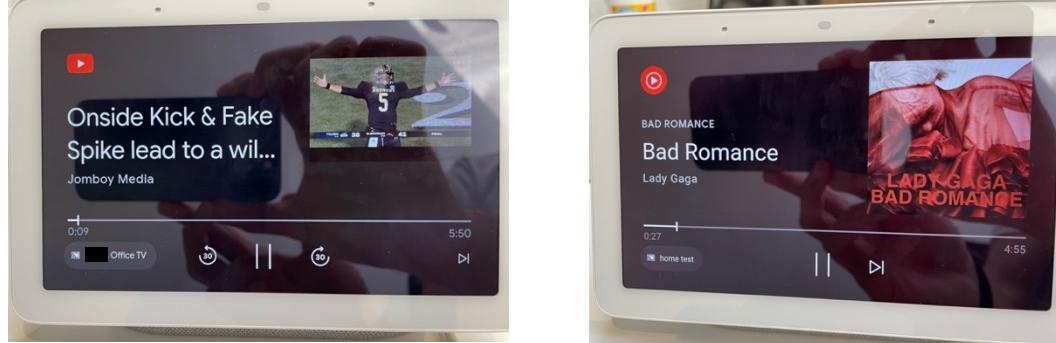
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	
	

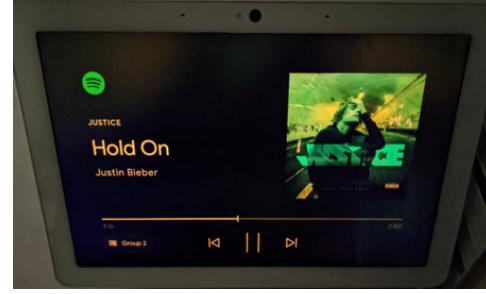
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	 <p>Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshots:</p> 

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	<p>Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g.</i>, https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/.</p> <p>Each Cast-enabled display is also programmed such that, after detecting the indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled display to at least one other Cast-enabled media player in the Cast-enabled playback system that is on the same Wi-Fi network as the Cast-enabled display (which is the claimed “at least one given playback device”), the Cast-enabled display is configured to transition from (i) a first mode in which the Cast-enabled display was configured for playback of the remote playback queue to (ii) a second mode in which the Cast-enabled display is configured to control the at least one other Cast-enabled media player’s playback of the remote playback queue (while the Cast-enabled display itself is no longer configured for playback of the remote playback queue). <i>See, e.g.</i>, https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another].</p> <p>Cast-enabled displays installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music, as illustrated by the following photos:</p> 

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	<p>Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:</p> <div style="text-align: center;">  </div> <p>Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p> <p>Representative examples of other evidence demonstrating this functionality are summarized below.</p> <p><u>YouTube, YouTube Music, YouTube TV, & YouTube Kids apps</u></p> <p>In addition to the evidence cited above for limitations 1.7-1.8 and the YouTube, YouTube Music, and YouTube TV apps screenshots shown above, the following exemplary evidence demonstrates that each Cast-enabled control device installed with the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed with this functionality:</p> <ul style="list-style-type: none"> <li data-bbox="544 1150 1875 1344">• [REDACTED] <li data-bbox="544 1297 1875 1344">[REDACTED]

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	<p>Representative excerpts of Google's YouTube app source code²⁸ related to the aforementioned functionality include:</p> 

²⁸ [REDACTED]

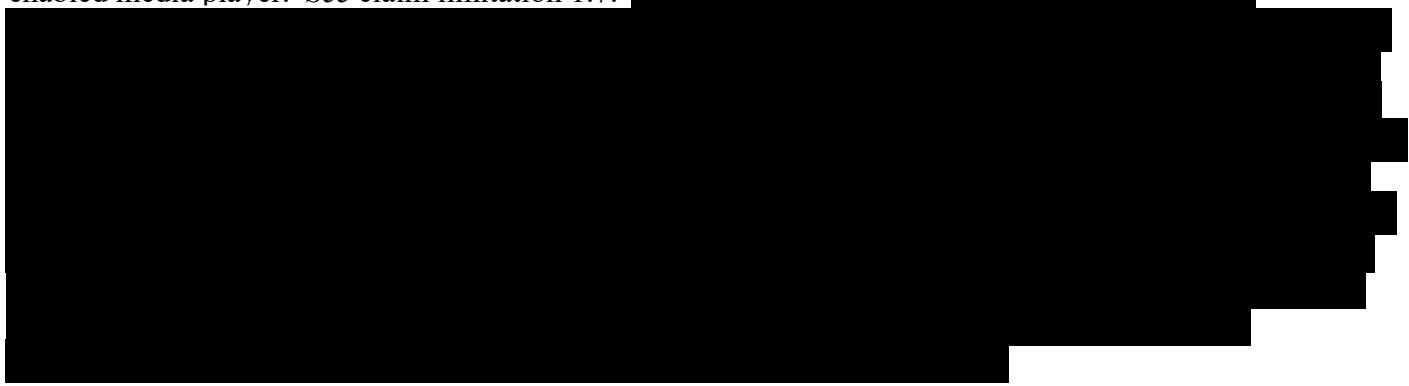
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	<p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p> <p><u>Spotify app</u></p> <p>The evidence cited above for limitations 1.7-1.8 and the Spotify app screenshots shown above demonstrates that each Cast-enabled control device installed with the Spotify app is programmed with this functionality.</p> <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p> <p><u>Cast-Enabled Displays</u></p> <p>In addition to the evidence cited above for limitations 1.7-1.8 and the Cast-enabled display screenshots shown above, the following exemplary evidence demonstrates that each Cast-enabled display is programmed with this functionality:</p> <ul style="list-style-type: none"> • https://developers.google.com/cast/docs/web_receiver/core_features (“Stream transfer[.] Preserving session state is the basis of stream transfer, a CAF feature where users can move existing audio and video streams across devices using ... smart displays. Media stops playing on one device (the source) and continues on another (the destination).... The event flow for stream transfer is: <ul style="list-style-type: none"> 1. On the source device: <ul style="list-style-type: none"> a. Media stops playing. b. The Web Receiver application receives a command to save the current media state. c. The Web Receiver application is shut down. 2. On the destination device: <ul style="list-style-type: none"> a. The Web Receiver application is loaded. b. The Web Receiver application receives a command to restore the saved media state. c. Media resumes playing.”

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HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.
Claim 2	Accused Instrumentalities
[2.0] The computing device of claim 1, [2.1] wherein the instruction comprises an instruction for the cloud-based computing system associated with the media service to provide the data identifying the next one or more media items to the given playback device for use in retrieving the at least one media item from the cloud-based computing system associated with the cloud-based media service.	<p>As described above, each Cast-enabled control device is a “computing device” as recited in claim 1. Moreover, each Cast-enabled control device is programmed such that the instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue from the Cast-enabled control device comprises an instruction for the cloud-based computing system associated with the cloud-based media service to provide the data identifying the next one or more media items to the given Cast-enabled media player for use in retrieving the at least one media item from the cloud-based computing system associated with the cloud-based media service.</p> <p>For instance, a Cast-enabled control device installed with at least some of the Cast-enabled apps discussed above is programmed such that the instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue from the Cast-enabled control device comprises an instruction for one or more cloud servers associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, YouTube TV, YouTube Kids, etc. or a third-party service such as Spotify, etc.) that are remote from the Cast-enabled computing device and accessible over the Internet, which may be operated by Google or a third-party service provider, to provide data identifying the next one or more media items to the given Cast-enabled media player for use in retrieving the at least one media item from the one or more cloud servers associated with the cloud-based media service. <i>See, e.g.</i>, https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display]; https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com]; https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast]; https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch YouTube Kids videos on your TV]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another]; https://developers.google.com/cast/docs/web_receiver/queueing; https://developers.google.com/cast/docs/ios_sender/queueing;</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

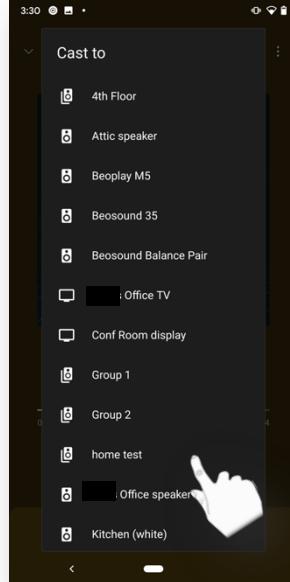
Claim 2	Accused Instrumentalities
	<p>https://developers.google.com/cast/docs/android_sender/queueing.</p> <p>For example, as explained above, a Cast-enabled computing device installed with any one of the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed such that, after receiving user input indicating a selection of at least one particular Cast-enabled media player in the Cast-enabled playback system that is to take over playback responsibility, the Cast-enabled computing device performs a variety of functions to transfer playback responsibility from the Cast-enabled computing device to the particular Cast-enabled media player. <i>See</i> claim limitation 1.7.</p>  <p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p>

Claim 4	Accused Instrumentalities
<p>[4.0] The computing device of claim 1, [4.1] wherein the representation of the one or more playback devices comprises at least</p>	<p>As described above, each Cast-enabled control device is a “computing device,” as recited in claim 1. Moreover, each Cast-enabled control device is programmed with the capability to perform the aforementioned functions where (i) the representation of the one or more Cast-enabled media players comprises at least one selectable indicator for a group of Cast-enabled media players that includes the given Cast-enabled media player and one or more other Cast-enabled media players that are to be configured for synchronous playback of the remote playback queue and (ii) the user input indicating the selection of at least one given Cast-enabled media player from the one or more Cast-enabled media players comprises user input indicating a selection of the group of Cast-enabled media players.</p>

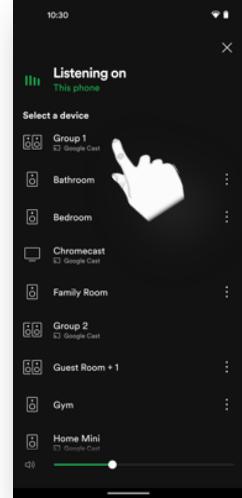
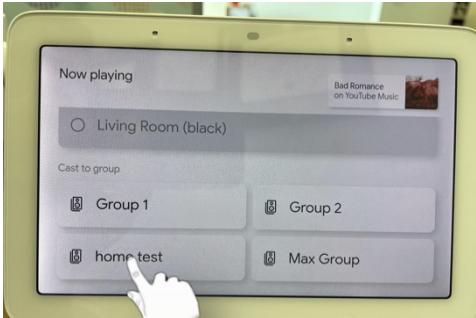
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 4	Accused Instrumentalities
<p>one selectable indicator for a group of playback devices that includes the given playback device and one or more other playback devices that are to be configured for synchronous playback of the remote playback queue, and wherein the user input indicating the selection of at least one given playback device from the one or more playback devices comprises user input indicating a selection of the group of playback devices.</p>	<p>For instance, each Cast-enabled control device is programmed with the capability to perform the aforementioned functions where (i) the representation of the one or more Cast-enabled media players comprises a selectable indicator for a “speaker group” that includes the given Cast-enabled media player and one or more other Cast-enabled media players that are to be configured for synchronous playback of the remote playback queue when the “speaker group” is launched, which amounts to the claimed “group of playback devices . . . that are to be configured for synchronous playback of the remote playback queue”, and (ii) the user input indicating the selection of at least one given Cast-enabled media player from the one or more Cast-enabled media players comprises user input indicating a selection of the “speaker group.” <i>See, e.g.,</i> https://support.google.com/googlenest/answer/7174267?hl=en-GB&co=GENIE.Platform=Android (“Group any combination of Google Nest or Google Home speakers and displays and Chromecast devices together for synchronous music throughout the home.”); https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab].</p> <p>Cast-enabled computing devices installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube Music app, as illustrated by the following screenshots:</p>

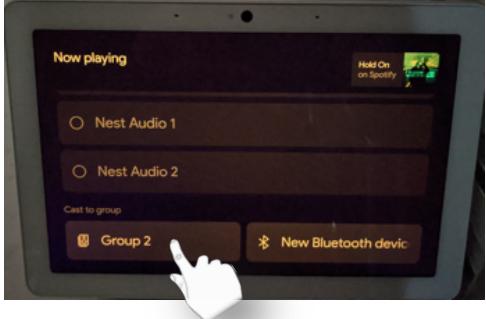
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 4	Accused Instrumentalities
	 <p>Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshot:</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 4	Accused Instrumentalities
	 <p>Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g.</i>, https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/.</p> <p>Cast-enabled displays installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube Music app, as illustrated by the following photos:</p> 

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 4	Accused Instrumentalities
	<p>Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:</p>  <p>Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p> <p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p>

Claim 7	Accused Instrumentalities
<p>[7.0] The computing device of claim 1, wherein:</p> <p>[7.1] operating in the first mode further involves providing a control interface comprising one or more selectable</p>	<p>As described above, each Cast-enabled control device is a “computing device,” as recited in claim 1. Moreover, each Cast-enabled control device is programmed such that operating in the first mode further involves providing a control interface comprising one or more selectable control icons that are configured to control playback of the remote playback queue by the Cast-enabled control device.</p> <p>For instance, each Cast-enabled control device is programmed such that operating in a mode in which the Cast-enabled control device is configured for playback of a remote playback queue provided by a cloud server associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, YouTube TV, YouTube Kids, etc. or a third-party service such as Spotify, etc.) that is remote from the Cast-enabled computing device and accessible over the Internet involves providing a control interface comprising</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 7	Accused Instrumentalities
control icons that are configured to control playback of the remote playback queue by the computing device;	<p>one or more selectable control icons (e.g., a Pause icon, a Skip icon, etc.) that are configured to control playback of the remote playback queue by the Cast-enabled control device. <i>See, e.g.</i>, https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display]; https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com]; https://support.google.com/googlenest/answer/9165738?hl=en [Google Nest display with YouTube built-in]; https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music; https://store.google.com/us/product/google_nest_hub_max?hl=en-US; <i>see also</i> claim limitation 1.4 (illustrating examples of this functionality from a Cast-enabled computing device and a Cast-enabled display that are each running at least the YouTube, YouTube Music, YouTube TV, and/or Spotify apps).</p> <p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 15, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p>
[7.2] transitioning from the first mode to the second mode further involves modifying the control interface such that the one or more selectable control icons are configured to control playback of the remote playback queue by the at least one playback device instead of the computing device.	<p>As described above, each Cast-enabled control device is a “computing device,” as recited in claim 1. Moreover, each Cast-enabled control device is programmed such that transitioning from the first mode to the second mode further involves modifying the control interface such that the one or more selectable control icons (e.g., the Pause icon, the Skip icon, etc.) are configured to control playback of the remote playback queue by the at least one Cast-enabled media player instead of the Cast-enabled control device.</p> <p>For instance, each Cast-enabled control device is programmed such that transitioning from the first mode in which the Cast-enabled control device was configured for playback of the remote playback queue to the second mode in which the Cast-enabled control device is configured to control the at least one Cast-enabled media player’s playback of the remote playback queue (while the Cast-enabled control device itself is no longer configured for playback of the remote playback queue) further involves modifying the control interface such that the one or more selectable control icons (e.g., a Pause icon, a Skip icon, etc.) are configured to control playback of the remote playback queue by the at least one Cast-enabled media player instead of the Cast-enabled control device. <i>See, e.g.</i>, https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display] (“You can even use your mobile device or tablet as a remote and control everything from playback to volume.”); https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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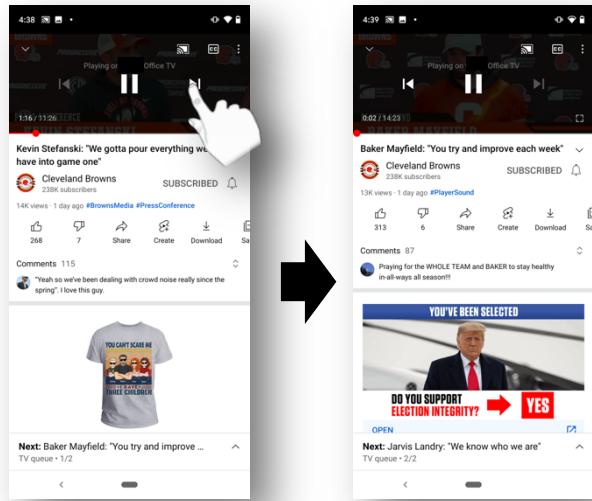
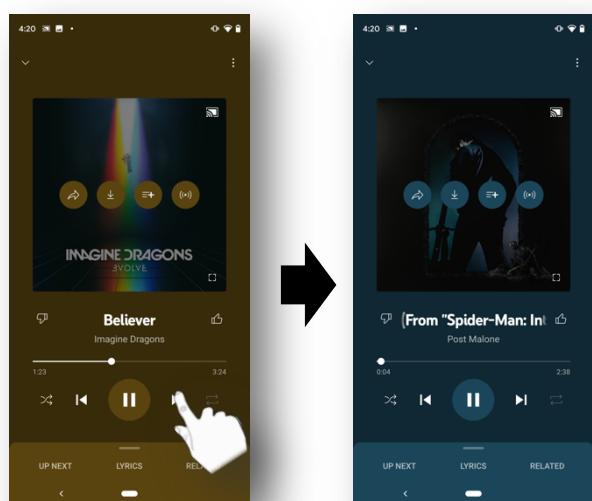
Claim 7	Accused Instrumentalities
	<p>speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com] (“To play, pause or navigate with the scrollbar, use your device as you normally would to control playback.”); https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab]; <i>see also</i> claim limitation 1.9 (illustrating examples of this functionality from a Cast-enabled computing device and a Cast-enabled display that are each running at least the YouTube, YouTube Music, YouTube TV, and/or Spotify apps).</p> <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p>

Claim 8	Accused Instrumentalities
<p>[8.0] The computing device of claim 7, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the computing device to perform functions comprising: [8.1]</p>	<p>As described above, each Cast-enabled control device is a “computing device,” as recited in claim 7. Moreover, each Cast-enabled control device further comprises program instructions stored on the Cast-enabled control device’s non-transitory computer-readable medium that, when executed by the Cast-enabled control device’s processor, cause the Cast-enabled control device to, after transitioning to the second mode, receive user input indicating a selection of a given control icon of the one or more selectable control icons, wherein the given control icon corresponds to a given transport control operation, and based on receiving the user input indicating the selection of the given control icon, cause the corresponding transport control operation to be executed by the given Cast-enabled media player.</p> <p>For instance, each Cast-enabled control device is programmed with the capability to, after transitioning to the second mode in which the Cast-enabled control device is configured to control the at least one Cast-enabled media player’s playback of the remote playback queue (while the Cast-enabled control device itself is no longer configured for playback of the remote playback queue), receive user input indicating a selection of a given control icon (e.g., a Play/Pause icon, a Skip icon, etc.) of the one or more selectable control icons, where the given control icon corresponds to a given transport control operation (e.g., play/pause, skip, etc.), and based on receiving the user input indicating the selection of the given control icon, cause the corresponding transport control operation (e.g., play/pause, skip, etc.) to be executed by the given Cast-</p>

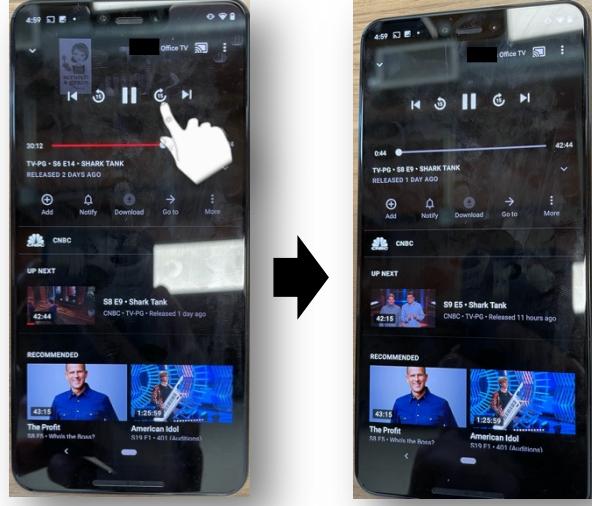
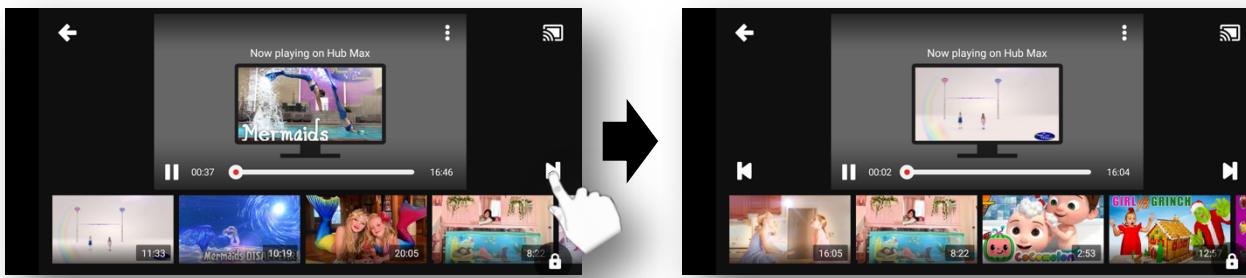
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 8	Accused Instrumentalities
<p>after transitioning to the second mode, receiving user input indicating a selection of a given control icon of the one or more selectable control icons, wherein the given control icon corresponds to a given transport control operation; and [8.2] based on receiving the user input indicating the selection of the given control icon, causing the corresponding transport control operation to be executed by the given playback device.</p>	<p>enabled media player. <i>See, e.g.</i>, https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display] (“You can even use your mobile device or tablet as a remote and control everything from playback to volume.”); https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com] (“To play, pause or navigate with the scrollbar, use your device as you normally would to control playback.”); https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab]; https://developer.android.com/reference/android/media/session/MediaController.TransportControls.</p> <p>Cast-enabled computing devices installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids apps, as illustrated by the following screenshots:</p>

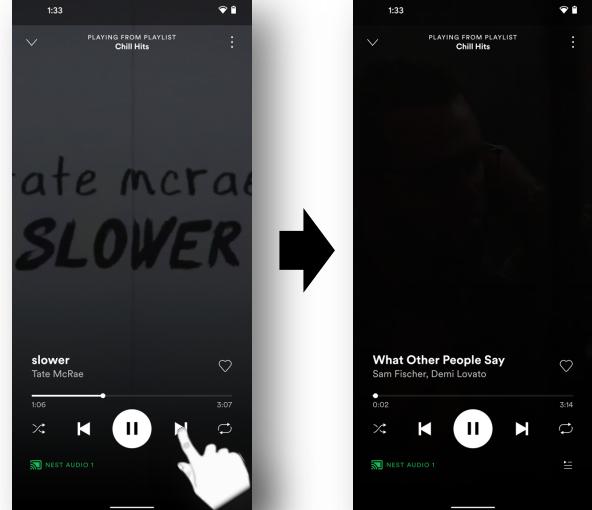
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 8	Accused Instrumentalities
	
	

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 8	Accused Instrumentalities
	
	 <p>Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshots:</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 8	Accused Instrumentalities
	 <p>Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. See, e.g., https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/.</p> <p>Cast-enabled displays installed with various of Google's own Cast-enabled apps, including but not limited to the YouTube and YouTube Music apps, as well as various third-party Cast-enabled apps, including but not limited to the Spotify app, are programmed to perform this functionality, as illustrated by the following exemplary screenshots:</p>

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Claim 8	Accused Instrumentalities
	
	 <p>Representative examples of other evidence demonstrating this functionality are summarized below.</p> <p><u>YouTube, YouTube Music, YouTube TV, & YouTube Kids apps</u></p> <p>Representative excerpts of Google's YouTube app source code³⁰ related to the aforementioned functionality include:</p> <div data-bbox="502 1220 1913 1300" style="background-color: black; height: 50px;"></div>

30 [REDACTED]

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 8	Accused Instrumentalities

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 8	Accused Instrumentalities

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

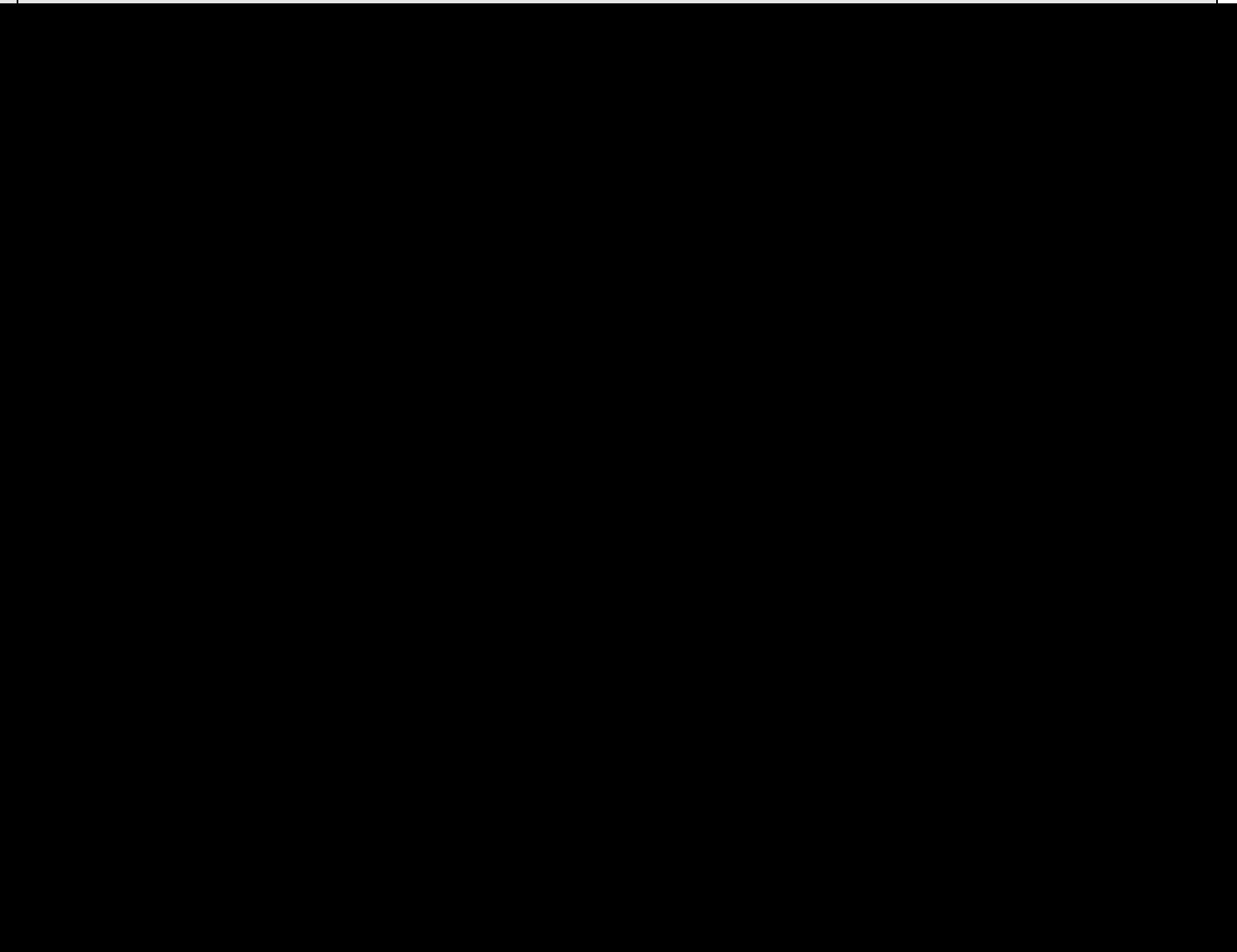
Claim 8	Accused Instrumentalities

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 8	Accused Instrumentalities

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 8



Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 8	Accused Instrumentalities

Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. *See* Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.

Cast-Enabled Displays

Representative excerpts of Google's Cast-enabled display source code³⁴ related to the aforementioned functionality include:

³⁴ [REDACTED]

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 8	Accused Instrumentalities

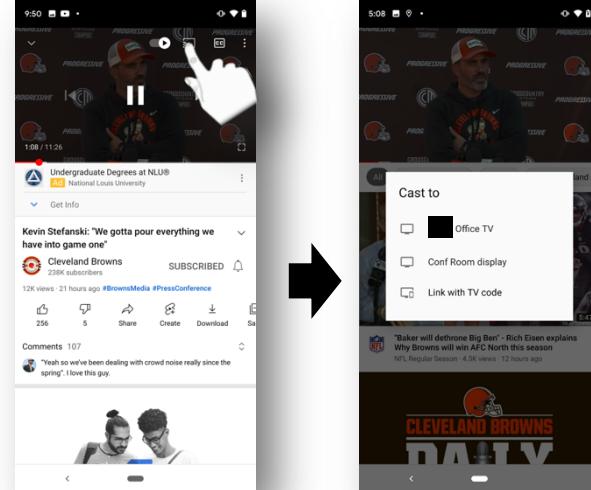
Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. *See* Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

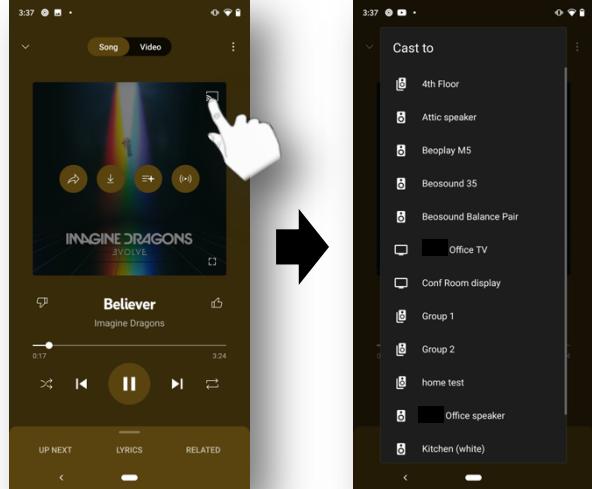
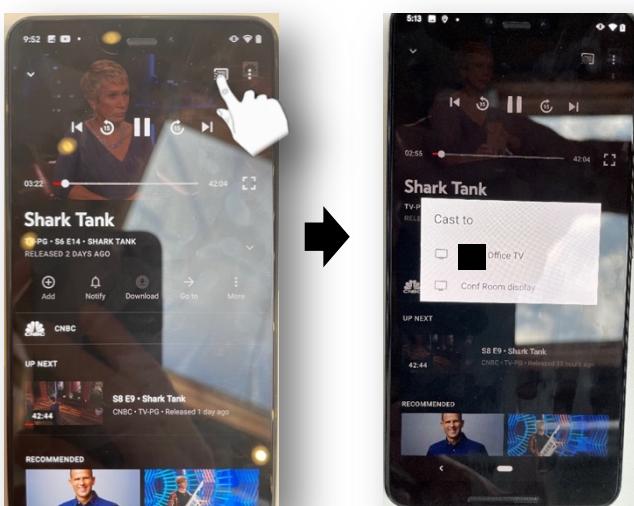
Claim 9	Accused Instrumentalities
[9.0] The computing device of claim 8, [9.1] wherein the transport control operation comprises one of a play operation, a pause operation, a skip forward operation, or a skip back operation.	As described above, each Cast-enabled control device is a “computing device,” as recited in claim 8. Moreover, each Cast-enabled control device is programmed with the capability to perform the aforementioned functions where the transport control operation comprises one of a play operation, a pause operation, a skip forward operation, or a skip back operation. <i>See</i> claim limitations 8.1-8.2.

Claim 11	Accused Instrumentalities
[11.0] The computing device of claim 1, wherein displaying the representation of the one or more playback devices comprises: [11.1] displaying the representation of the one or more playback devices in response to receiving a selection of a displayed icon indicating that	As described above, each Cast-enabled control device is a “computing device,” as recited in claim 1. Moreover, each Cast-enabled control device is programmed such that displaying the representation of the one or more Cast-enabled media players comprises displaying the representation of the one or more Cast-enabled media players in response to receiving a selection of a displayed icon indicating that playback responsibility for the remote playback queue can be transferred. For instance, each Cast-enabled control device is programmed such that displaying a list of available devices for transferring playback that includes one or more Cast-enabled media players in a Cast-enabled playback system comprises displaying the list of available devices for transferring playback that includes one or more Cast-enabled media players in the Cast-enabled playback system in response to receiving a selection of a displayed icon (e.g., a “Cast button”) indicating that playback responsibility for the remote playback queue can be transferred. <i>See, e.g.</i> , https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display] (“Tap the Cast button  https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers] (“2. In the top right corner, tap the Cast button  https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com] (“Tap the Cast button  88

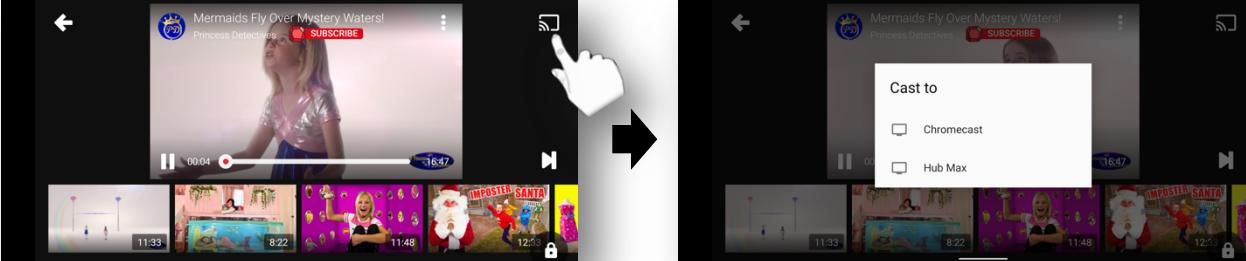
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 11	Accused Instrumentalities
<p>playback responsibility for the remote playback queue can be transferred.</p>	<p>https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast] (“Tap Cast . This is found at the top of the app Home screen. []Choose the device you want to cast to.”); https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch YouTube Kids videos on your TV]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another] (“At the bottom-left corner of the screen, tap Devices  to see the list of available devices and speaker groups. . . . Select the device for which you want to move your media.”); https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab].</p> <p>Cast-enabled computing devices installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids, as illustrated by the following screenshots:</p> 

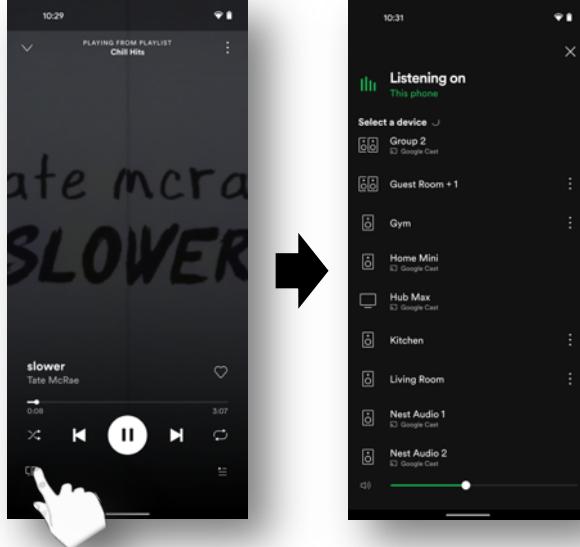
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 11	Accused Instrumentalities
	
	

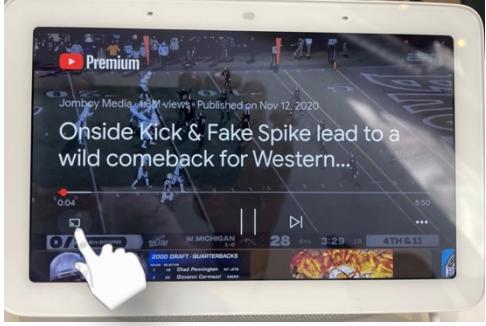
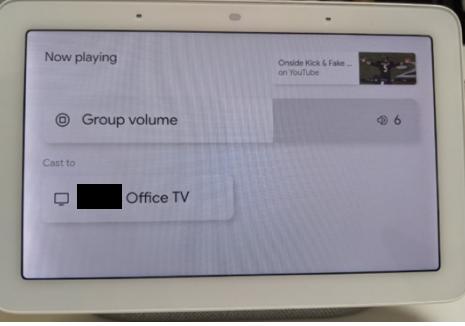
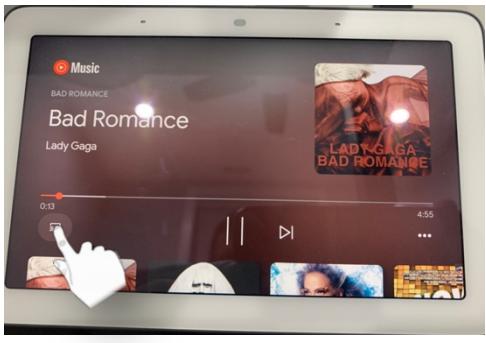
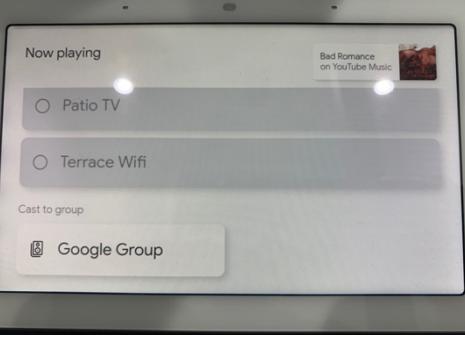
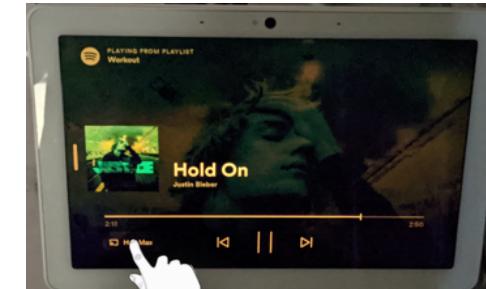
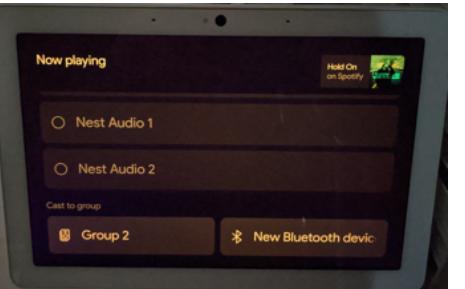
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 11	Accused Instrumentalities
	 <p data-bbox="487 638 1871 711"><i>See also, e.g., GOOG-SONOSWDTX-00041499 [REDACTED] at 500-501.</i></p> <p data-bbox="487 752 1871 856">Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshots:</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 11	Accused Instrumentalities
	 <p>Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g.</i>, https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/.</p> <p>Cast-enabled displays installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music, as illustrated by the following photos:</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 11	Accused Instrumentalities
	 
	 
	<p>Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photos:</p>  

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 11	Accused Instrumentalities
	<p>Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p> <p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p>
Claim 12	Accused Instrumentalities
<p>[12.0] A non-transitory computer-readable medium having stored thereon program instructions that, when executed by at least one processor, cause a computing device to perform functions comprising:</p>	<p>Google's "Cast" technology enables an "Android, iOS, or Web app to direct its streaming video and audio to a TV or sound system," where the app "becomes the remote control to play, pause, seek, rewind, stop, and otherwise control the media." https://developers.google.com/cast. In Google's "Cast" framework, there are two core categories of devices: (1) "sender" devices, which are computing devices installed with a Cast-enabled Android, iOS, Chrome, or browser-based app accessed via either an app store or Chromecast-enabled site URL³⁶ (including youtube.com, music.youtube.com, tv.youtube.com, and spotify.com, and (2) "receiver" devices, which are Cast-enabled media players such as an audio or video playback device. <i>See, e.g.</i>, https://developers.google.com/cast/docs/developers; https://developers.google.com/cast/glossary; https://developers.google.com/cast/docs/ux_guidelines.</p> <p>There are many different Cast-enabled Android, iOS, Chrome, or browser-based apps that allow a user to transfer playback of streaming media content from the user's smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player's playback using the Cast-enabled app. This includes Google's own Cast-enabled apps, such as the YouTube app, YouTube Music app, the YouTube TV app, and the YouTube Kids app, as well as a host of different third-party Cast-enabled apps, such as the Spotify app. <i>See, e.g.</i>, https://support.google.com/chromecast/answer/6279384?hl=en; https://www.google.com/chromecast/built-in/apps/. These Cast-enabled apps can be installed and run on any smartphone, tablet, or computer device that supports Android, iOS, Chrome, or browser-based apps, including Google's own "Pixel" smartphone, tablet, and computer devices (<i>e.g.</i>, the Pixel, Pixel XL, Pixel 2, Pixel 2 XL, Pixel 3, Pixel 3 XL, Pixel 3a, Pixel 3a XL, Pixel 4, Pixel 4 XL, Pixel 4a, Pixel 4a (5G), Pixel 5, Pixel 5a (5G), Pixel 6 phones, the Pixel Slate tablet, and the Pixelbook and Pixelbook Go laptops) as well as</p>

³⁶ *See, e.g.*, <https://support.google.com/chromecast/answer/3265953?hl=en>.

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Claim 12	Accused Instrumentalities
	<p>many third-party smartphone, tablet, or computer device. <i>See, e.g.,</i> https://store.google.com/us/magazine/compare_pixel; https://store.google.com/us/product/google_pixelbook_specs; https://store.google.com/us/product/pixel_slate_specs. For purposes of this chart, any smartphone, tablet, or computer device installed with a Cast-enabled Android, iOS, Chrome, or browser-based app (e.g., accessed via an app store or Chromecast-enabled site URL) that allows a user to transfer playback of streaming media content from the smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player's playback using the Cast-enabled app will be referred to as a "Cast-enabled computing device."</p> <p>As set out in the Supplemental Infringement Contentions, Sonos has endeavored to list the possible third-party smartphone, tablet, and computer devices that may have been used to download and install one or more accused Cast-enabled apps between May 2018 to present. <i>See Appx. 1.</i> Each of these third-party smartphone, tablet, and computer devices, when installed with at least one Cast-enabled app, meets all elements of the claims as explained in more detail herein. As set forth below, Sonos cites representative examples of Google smartphone, tablet, and computer devices that comprises a tangible, non-transitory computer-readable storage medium that, when installed with a Cast-enabled app, includes executable instructions that when executed by a processor causes the device to carry out the recited functions, but notes that this tangible, non-transitory computer-readable storage medium has become ubiquitous among all smartphone, tablet, and computer devices. Each possible third-party smartphone, tablet, and computer device listed in Appendix 1 contains this aspect and thus meets this element.</p> <p>There are also many different Cast-enabled media players to which playback of streaming media content can be transferred from a Cast-enabled computing device. This includes Google's own Cast-enabled media players, such as the Home Mini, Nest Mini, Home, Home Max, Home Hub, Nest Hub, Nest Hub Max, Nest Wifi Point, Chromecast, Chromecast Audio, Chromecast Ultra, Chromecast with Google TV, and Nest Audio media players, as well as various other third-party media players with built-in Cast functionality. <i>See, e.g.,</i> https://store.google.com/us/product/google_home_max?hl=en-US; https://store.google.com/us/product/chromecast_google_tv_compare?hl=en-US; https://www.google.com/chromecast/built-in/audio/.</p>

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Claim 12	Accused Instrumentalities
	<p>Certain of these Cast-enabled media players also include a display screen and firmware that enables the Cast-enabled media players to additionally function as a control device for other Cast-enabled media players. This sub-category of Cast-enabled media players, which will be referred to herein as “Cast-enabled displays,” includes Google’s Home Hub, Nest Hub, and Nest Hub Max media players. <i>See, e.g.</i>, https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music; https://store.google.com/us/product/google_nest_hub_max?hl=en-US; https://support.google.com/googlenest/answer/9165738?hl=en. Similar to the Cast-enabled computing devices, these Cast-enabled displays have Cast-enabled software (e.g., firmware and/or Cast-enabled apps) that allows a user to transfer playback of streaming media content from the Cast-enabled display to another Cast-enabled media player and then control that other Cast-enabled media player’s playback using the Cast-enabled display’s user interface. For purposes of this chart, Cast-enabled computing devices and Cast-enabled displays may be referred to collectively as “Cast-enabled control devices.”</p> <p>Google also hosts backend software on Cloud-based infrastructure owned and/or operated by Google (sometimes referred to as Google Cloud Platform or “GCP” for short) that facilitates the aforementioned Cast functionality for transferring playback of streaming media content from a Cast-enabled control device to a Cast-enabled media player and/or controlling the Cast-enabled media player’s playback.</p> <p>As described in further detail below, each Cast-enabled control device is a “computing device” that comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by the Cast-enabled control device’s processor, cause that Cast-enabled control device to perform the functions recited in claim 12. Further, each server that hosts at least one of the aforementioned Cast-enabled apps for download onto Cast-enabled computing devices, which is referred to herein as a “Cast-enabled app download server,” comprises a tangible, non-transitory computer-readable storage medium having program instructions stored thereon that, when executed by a Cast-enabled control device’s processor, cause that Cast-enabled control device to perform the functions recited in claim 12. Further yet, because each Cast-enabled media player is a data network device (<i>i.e.</i>, a device that is configured to connect to and communicate over a medium that interconnects devices in a manner that enables them to send digital data packets to and receive digital data packets from each other) and is configured to process and output audio, each Cast-enabled media player comprises a “playback device” as recited in claim 12. <i>See, e.g.</i>, Pl.’s Opening Markman Br. (D.I. 60 of 20-cv-881-ADA) at pp. 4-6, 23-26, Exs. 24-25; Pl.’s Reply Markman Br. (D.I. 66 of 20-cv-881-ADA) at pp. 2-3, 10-12, Exs. 26-27; SONOS-SVG2-00018184 - SONOS-SVG2-00018236 [ITC Order No. 20] at p. 15;</p>

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Claim 12	Accused Instrumentalities
	<p>https://support.google.com/goolgenest/answer/7072284?hl=en;</p> <p>https://support.google.com/chromecast/answer/3046409?hl=en;</p> <p>https://store.google.com/us/product/nest_wifi_specs?hl=en-US.</p>
<p>[12.1] operating in a first mode in which the computing device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service;</p>	<p>Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to operate in a first mode in which the Cast-enabled control device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service. <i>See</i> claim limitation 1.4.</p>
<p>[12.2] while operating in the first mode, displaying a representation of one or more playback devices in a media playback system that are each i) communicatively coupled to the computing device over a data network and ii) available to accept playback responsibility for</p>	<p>Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to, while operating in the first mode, display a representation of one or more Cast-enabled media players in a Cast-enabled playback system that are each (i) communicatively coupled to the Cast-enabled control device over a data network and (ii) available to accept playback responsibility for the remote playback queue. <i>See</i> claim limitation 1.5.</p>

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Claim 12	Accused Instrumentalities
the remote playback queue;	
[12.3] while displaying the representation of the one or more playback devices, receiving user input indicating a selection of at least one given playback device from the one or more playback devices;	Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to, while displaying the representation of the one or more Cast-enabled media players, receive user input indicating a selection of at least one given Cast-enabled media player from the one or more Cast-enabled media players. <i>See claim limitation 1.6.</i>
[12.4] based on receiving the user input, transmitting an instruction for the at least one given playback device to take over responsibility for playback of the remote playback queue from the computing device, wherein the instruction configures the at least one given playback device to (i) communicate	Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to, based on receiving the user input, transmit an instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue from the Cast-enabled control device, wherein the instruction configures the at least one given Cast-enabled media player to (i) communicate with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item. <i>See claim limitation 1.7.</i>

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Claim 12	Accused Instrumentalities
<p>with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item</p>	
<p>[12.5] detecting an indication that playback responsibility for the remote playback queue has been successfully transferred from the computing device to the at least one given playback device;</p>	<p>Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to detect an indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled control device to the at least one given Cast-enabled media player. <i>See</i> claim limitation 1.8.</p>

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Claim 12	Accused Instrumentalities
[12.6] and after detecting the indication, transitioning from i) the first mode in which the computing device is configured for playback of the remote playback queue to ii) a second mode in which the computing device is configured to control the at least one given playback device's playback of the remote playback queue and the computing device is no longer configured for playback of the remote playback queue.	Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to, after detecting the indication, transition from (i) the first mode in which the Cast-enabled control device is configured for playback of the remote playback queue to (ii) a second mode in which the Cast-enabled control device is configured to control the at least one given Cast-enabled media player's playback of the remote playback queue and the Cast-enabled control device is no longer configured for playback of the remote playback queue. <i>See claim limitation 1.9.</i>

Claim 13	Accused Instrumentalities
[13.0] The non-transitory computer-readable medium of claim	As described above, each Cast-enabled control device and each Cast-enabled app download server comprises a “non-transitory computer-readable medium,” as recited in claim 12. Moreover, in accordance with the program instructions, each Cast-enabled control device is programmed such that the instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue

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Claim 13	Accused Instrumentalities
12, [13.1] wherein the instruction comprises an instruction for the cloud-based computing system associated with the cloud-based media service to provide the data identifying the next one or more media items to the given playback device for use in obtaining the at least one media item from the cloud-based computing system associated with the cloud-based media service.	from the Cast-enabled control device comprises an instruction for the cloud-based computing system associated with the cloud-based media service to provide the data identifying the next one or more media items to the given Cast-enabled media player for use in retrieving the at least one media item from the cloud-based computing system associated with the cloud-based media service. <i>See</i> claim limitation 2.1.

Claim 15	Accused Instrumentalities
[15.0] A method carried out by a computing device, the method comprising:	Google’s “Cast” technology enables an “Android, iOS, or Web app to direct its streaming video and audio to a TV or sound system,” where the app “becomes the remote control to play, pause, seek, rewind, stop, and otherwise control the media.” https://developers.google.com/cast . In Google’s “Cast” framework, there are two core categories of devices: (1) “sender” devices, which are computing devices installed with a Cast-enabled Android, iOS, Chrome, or browser-based app accessed via either an app store or Chromecast-enabled site URL ³⁷ (including youtube.com, music.youtube.com, tv.youtube.com, and spotify.com), and (2)

³⁷ See, e.g., <https://support.google.com/chromecast/answer/3265953?hl=en>.

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Claim 15	Accused Instrumentalities
	<p>“receiver” devices, which are Cast-enabled media players such as an audio or video playback device. <i>See, e.g.</i>, https://developers.google.com/cast/docs/developers; https://developers.google.com/cast/glossary; https://developers.google.com/cast/docs/ux_guidelines.</p> <p>There are many different Cast-enabled Android, iOS, Chrome, or browser-based apps that allow a user to transfer playback of streaming media content from the user’s smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player’s playback using the Cast-enabled app. This includes Google’s own Cast-enabled apps, such as the YouTube app, YouTube Music app, the YouTube TV app, and the YouTube Kids app, as well as a host of different third-party Cast-enabled apps, such as the Spotify app. <i>See, e.g.</i>, https://support.google.com/chromecast/answer/6279384?hl=en; https://www.google.com/chromecast/built-in/apps/. These Cast-enabled apps can be installed and run on any smartphone, tablet, or computer device that supports Android, iOS, Chrome, or browser-based apps, including Google’s own “Pixel” smartphone, tablet, and computer devices (<i>e.g.</i>, the Pixel, Pixel XL, Pixel 2, Pixel 2 XL, Pixel 3, Pixel 3 XL, Pixel 3a, Pixel 3a XL, Pixel 4, Pixel 4 XL, Pixel 4a, Pixel 4a (5G), Pixel 5, Pixel 5a (5G), Pixel 6 phones, the Pixel Slate tablet, and the Pixelbook and Pixelbook Go laptops) as well as many third-party smartphone, tablet, or computer device. <i>See, e.g.</i>, https://store.google.com/us/magazine/compare_pixel; https://store.google.com/us/product/google_pixelbook_specs; https://store.google.com/us/product/pixel_slate_specs. For purposes of this chart, any smartphone, tablet, or computer device installed with a Cast-enabled Android, iOS, Chrome, or browser-based app (<i>e.g.</i>, accessed via an app store or Chromecast-enabled site URL) that allows a user to transfer playback of streaming media content from the smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player’s playback using the Cast-enabled app will be referred to as a “Cast-enabled computing device.”</p> <p>As set out in the Supplemental Infringement Contentions, Sonos has endeavored to list the possible third-party smartphone, tablet, and computer devices that may have been used to download and install one or more accused Cast-enabled apps between May 2018 to present. <i>See Appx. 1.</i> Each of these third-party smartphone, tablet, and computer devices, when installed with at least one Cast-enabled app, meets all elements of the claims as explained in more detail herein. As set forth below, Sonos cites representative examples of Google smartphone, tablet, and computer devices that were capable of being installed with a</p>

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Claim 15	Accused Instrumentalities
	<p>Cast-enabled app but notes that each possible third-party smartphone, tablet, and computer device listed in Appendix 1 was capable of being installed with a Cast-enabled app.</p> <p>There are also many different Cast-enabled media players to which playback of streaming media content can be transferred from a Cast-enabled computing device. This includes Google’s own Cast-enabled media players, such as the Home Mini, Nest Mini, Home, Home Max, Home Hub, Nest Hub, Nest Hub Max, Nest Wifi Point, Chromecast, Chromecast Audio, Chromecast Ultra, Chromecast with Google TV, and Nest Audio media players, as well as various other third-party media players with built-in Cast functionality. <i>See, e.g.,</i> https://store.google.com/us/product/google_home_max?hl=en-US; https://store.google.com/us/product/chromecast_google_tv_compare?hl=en-US; https://www.google.com/chromecast/built-in/audio/.</p> <p>Certain of these Cast-enabled media players also include a display screen and firmware that enables the Cast-enabled media players to additionally function as a control device for other Cast-enabled media players. This sub-category of Cast-enabled media players, which will be referred to herein as “Cast-enabled displays,” includes Google’s Home Hub, Nest Hub, and Nest Hub Max media players. <i>See, e.g.,</i> https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music; https://store.google.com/us/product/google_nest_hub_max?hl=en-US; https://support.google.com/googlenest/answer/9165738?hl=en. Similar to the Cast-enabled computing devices, these Cast-enabled displays have Cast-enabled software (e.g., firmware and/or Cast-enabled apps) that allows a user to transfer playback of streaming media content from the Cast-enabled display to another Cast-enabled media player and then control that other Cast-enabled media player’s playback using the Cast-enabled display’s user interface. For purposes of this chart, Cast-enabled computing devices and Cast-enabled displays may be referred to collectively as “Cast-enabled control devices.”</p> <p>Google also hosts backend software on Cloud-based infrastructure owned and/or operated by Google (sometimes referred to as Google Cloud Platform or “GCP” for short) that facilitates the aforementioned Cast functionality for transferring playback of streaming media content from a Cast-enabled control device to a Cast-enabled media player and/or controlling the Cast-enabled media player’s playback.</p> <p>As described in further detail below, each Cast-enabled control device is a “computing device” that practices the method of claim 15. Further, because each Cast-enabled media player is a data network device (<i>i.e.</i>, a</p>

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Claim 15	Accused Instrumentalities
	<p>device that is configured to connect to and communicate over a medium that interconnects devices in a manner that enables them to send digital data packets to and receive digital data packets from each other) and is configured to process and output audio, each Cast-enabled media player is a “playback device” as recited in claim 15. <i>See, e.g.</i>, Pl.’s Opening Markman Br. (D.I. 60 of 20-cv-881-ADA) at pp. 4-6, 23-26, Exs. 24-25; Pl.’s Reply Markman Br. (D.I. 66 of 20-cv-881-ADA) at pp. 2-3, 10-12, Exs. 26-27; SONOS-SVG2-00018184 - SONOS-SVG2-00018236 [ITC Order No. 20] at p. 15; https://support.google.com/googlenest/answer/7072284?hl=en; https://support.google.com/chromecast/answer/3046409?hl=en; https://store.google.com/us/product/nest_wifi_specs?hl=en-US.</p>
<p>[15.1] operating in a first mode in which the computing device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service;</p>	<p>Each Cast-enabled control device practices the step of operating in a first mode in which the Cast-enabled control device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service. <i>See</i> claim limitation 1.4.</p>
<p>[15.2] while operating in the first mode, displaying a representation of one or more playback devices in a media playback system that are each i) communicatively</p>	<p>Each Cast-enabled control device practices the step of, while operating in the first mode, displaying a representation of one or more Cast-enabled media players in a Cast-enabled playback system that are each (i) communicatively coupled to the Cast-enabled control device over a data network and (ii) available to accept playback responsibility for the remote playback queue. <i>See</i> claim limitation 1.5.</p>

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Claim 15	Accused Instrumentalities
coupled to the computing device over a data network and ii) available to accept playback responsibility for the remote playback queue;	
[15.3] while displaying the representation of the one or more playback devices, receiving user input indicating a selection of at least one given playback device from the one or more playback devices;	Each Cast-enabled control device practices the step of, while displaying the representation of the one or more Cast-enabled media players, receiving user input indicating a selection of at least one given Cast-enabled media player from the one or more Cast-enabled media players. <i>See</i> claim limitation 1.6.
[15.4] based on receiving the user input, transmitting an instruction for the at least one given playback device to take over responsibility for playback of the remote playback queue from the computing device,	Each Cast-enabled control device practices the step of, based on receiving the user input, transmitting an instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue from the Cast-enabled control device, wherein the instruction configures the at least one given Cast-enabled media player to (i) communicate with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item. <i>See</i> claim limitation 1.7.

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Claim 15	Accused Instrumentalities
<p>wherein the instruction configures the at least one given playback device to (i) communicate with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item;</p>	
<p>[15.5] detecting an indication that playback responsibility for the remote playback queue has been successfully</p>	<p>Each Cast-enabled control device practices the step of detecting an indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled control device to the at least one given Cast-enabled media player. <i>See</i> claim limitation 1.8.</p>

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Claim 15	Accused Instrumentalities
transferred from the computing device to the at least one given playback device;	
[15.6] and after detecting the indication, transitioning from i) the first mode in which the computing device is configured for playback of the remote playback queue to ii) a second mode in which the computing device is configured to control the at least one given playback device's playback of the remote playback queue and the computing device is no longer configured for playback of the remote playback queue.	Each Cast-enabled control device practices the step of, after detecting the indication, transitioning from (i) the first mode in which the Cast-enabled control device is configured for playback of the remote playback queue to (ii) a second mode in which the Cast-enabled control device is configured to control the at least one given Cast-enabled media player's playback of the remote playback queue and the Cast-enabled control device is no longer configured for playback of the remote playback queue. <i>See</i> claim limitation 1.9.

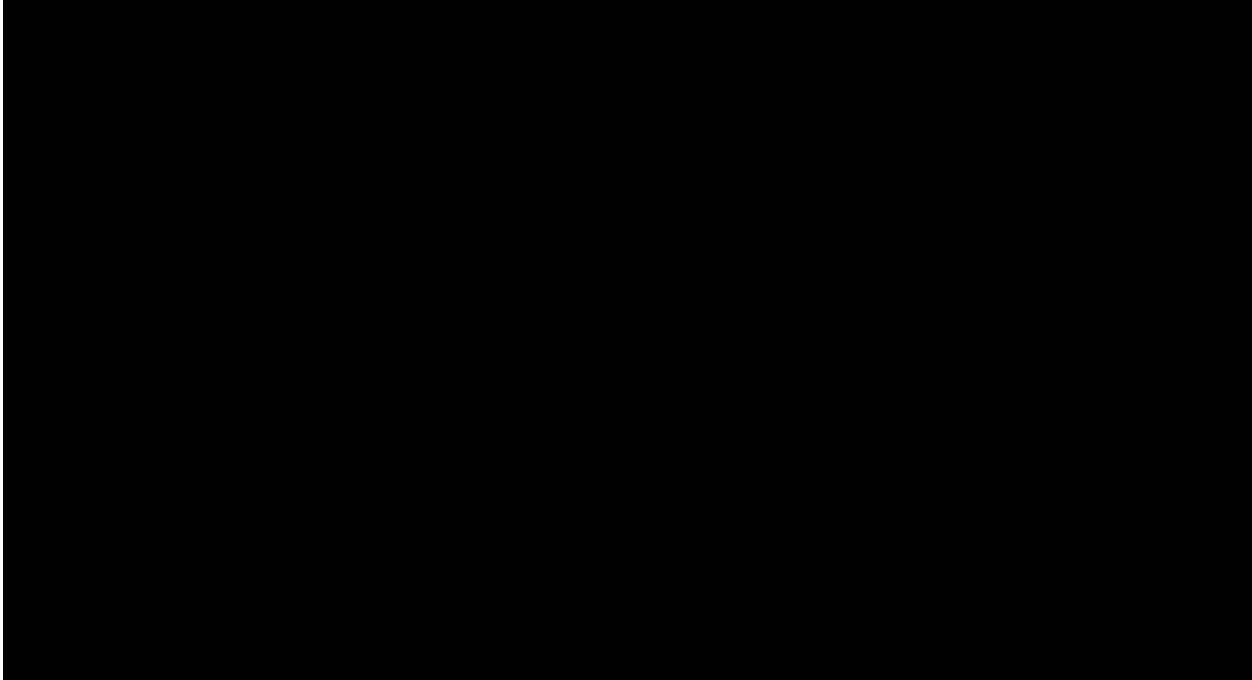
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Claim 16	Accused Instrumentalities
<p>[16.0] The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the computing device to perform functions comprising: [16.1] before displaying the representation of the one or more playback devices, receiving an indication that the one or more playback devices in the media playback system are available to accept playback responsibility for the remote playback queue.</p>	<p>As described above, each Cast-enabled control device is a “computing device” as recited in claim 1. Moreover, each Cast-enabled control device further comprises instructions stored on the Cast-enabled control device’s non-transitory computer-readable medium that, when executed by the Cast-enabled control device’s processor, cause the Cast-enabled control device to, before displaying the representation of the one or more Cast-enabled media players, receive an indication that the one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue.</p> <p>For instance, each Cast-enabled control device is programmed with the capability to, before displaying a list of available devices for transferring playback that includes one or more Cast-enabled media players in a Cast-enabled playback system, receive an indication that the one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue, which is demonstrated by the fact that each Cast-enabled control device is capable of displaying the list of devices that are available for casting. See, e.g., https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display] (“Tap the Cast button  . . . Tap the speaker or display for which you'd like to cast.”); https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers] (“2. In the top right corner, tap the Cast button  3. Choose your speaker.”); https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com] (“Tap the Cast button  . . . Tap the Chromecast device to which you want to cast.”); https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast] (“Tap Cast  . This is found at the top of the app Home screen. <input type="checkbox"/> Choose the device you want to cast to.”); https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch YouTube Kids videos on your TV]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another] (“At the bottom-left corner of the screen, tap Devices  to see the list of available devices and speaker groups. . . . Select the device for which you want to move your media.”).</p> <p>This functionality is evidenced by the screenshots above in connection with claim limitation 1.5, which demonstrate that a Cast-enabled control device installed with any one of the YouTube app, the YouTube</p>

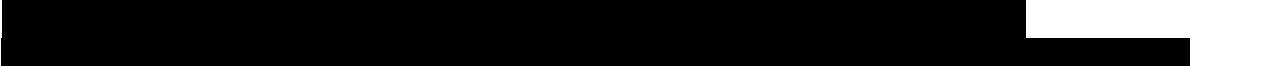
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 16	Accused Instrumentalities
	<p>Music app, the YouTube TV app, or the Spotify app (among other Cast-enabled apps) functions to receive an indication that one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue.</p> <p>The evidence also shows that a Cast-enabled control device receives this indication that one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue as part of performing one or more discovery processes ([REDACTED] [REDACTED]). Representative examples of this evidence are identified below.</p> <p><u>YouTube, YouTube Music, YouTube TV, & YouTube Kids apps</u></p> <p>The following exemplary evidence demonstrates that each Cast-enabled control device installed with the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed with this functionality:</p> <ul style="list-style-type: none"> • [REDACTED]

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 16	Accused Instrumentalities
	 

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Claim 16	Accused Instrumentalities
	<ul style="list-style-type: none"><li data-bbox="544 1024 1875 1090">i <li data-bbox="544 1204 1790 1253">ii 

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 16	Accused Instrumentalities
	<p>Representative excerpts of Google's YouTube³⁸ and YouTube Music³⁹ app source code related to the aforementioned functionality include:</p> <div style="background-color: black; height: 350px; width: 100%;"></div>
	<p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p> <p><u>Spotify app</u></p> <p>Each Cast-enabled control device installed with the Spotify app (which is Cast-enabled and utilizes the Cast SDK) is programmed to receive an indication that one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue as part of performing one or more discovery processes, such as a discovery process facilitated by the Cast SDK, as demonstrated by the following exemplary evidence:</p> <ul style="list-style-type: none"> • <div style="background-color: black; height: 150px; width: 100%;"></div>

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Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 16	Accused Instrumentalities
	<ul style="list-style-type: none"> • https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers] (listing Spotify as one of the “Chromecast-enabled apps”). <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p> <p><u>Cast-Enabled Displays</u></p> <p>The following exemplary evidence demonstrates that each Cast-enabled display is programmed with this functionality:</p> <ul style="list-style-type: none"> • [REDACTED] • https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another] (“At the bottom-left corner of the screen, tap Devices  to see the list of available devices and speaker groups.”). <p>Representative excerpts of Google’s source code⁴⁰ related to the aforementioned functionality include:</p> <p>[REDACTED]</p> <p>[REDACTED]</p>

40 [REDACTED]

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 16	Accused Instrumentalities
	<p>• [REDACTED]</p> <p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p>